

64504-0118

SAFETY DATA SHEET

IIS 2015 GHS, European Union CLP EC 1272/2008 & the 8° ATP 2016/918, the Korean MoEL (I

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS 2015 GHS, European Union CLP EC 1272/2008 & the 8" ATP 2016/918, the Korean MoEL (Public Notice 2016-19), Singapore SSS66 Standard – Parts 2 & 3, Chinese GB/T 16483-2008 & GB/T 17519-2013, New Zealand Hazardous Substances (Hazard Classification) Notice 2020, Australian WorkSafe GHS 7, 2022, Japanese JIS Z 7252: 2019 (Classification of chemicals) and JIS Z 7253: 2019 (Communication of information on danger of chemicals – labeling and safety data sheets), and the Global Harmonization Standard

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

PRODUCT IDENTIFIER USED ON LABEL:

Product Identifier: Stencil Magic Remover

Other Means of Identification: Not Applicable
RECOMMENDED USE of the PRODUCT and RESTRICTIONS on USE:

Recommended Use: Stencil Solution Remover for Tissue Staining Paint

Restrictions on Use: Other than Recommended Use

SHIPPING CLASSIFICATION:

U.N. Number:

U.N. Dangerous Goods Class/Subsidiary Risk:

HAZCHEM Code (Australia):

Poisons Schedule Number (Australia):

None Allocated
None Allocated
None Allocated

NAME, ADDRESS and TELEPHONE NUMBER of CHEMICAL MANUFACTURER, IMPORTER or OTHER RESPONSIBLE PARTY:

U.S. Supplier/Manufacturer's Name: DYNAMIC COLOR COMPANY

Address: PO Box 21083

Fort Lauderdale, FL, 33335 USA

Information Phone:+ 1-954-462-0261 9 a.m. to 4 p.m. (U.S. East Coast Time Zone)Emergency Phone:1-800-233-8332 9 a.m. to 4 p.m. (U.S. East Coast Time Zone)

(from U.S., Canada, Puerto Rico, U.S. Virgin Islands)

Email: sales@dynamiccolor.com

Date of Preparation: October 5, 2022

Date of Revision: New

2. HAZARD IDENTIFICATION

GLOBAL HARMONIZATION LABELING AND CLASSIFICATION: Classified in accordance with Global Harmonization Standard under U.S. OSHA Hazard Communication Standard, Canadian *WHMIS 2015 GHS*, European CLP Regulation (EC) 1272/2008, Japanese JIS Z 7252: 2019 (Classification of chemicals) and JIS Z 7253: 2019 (Communication of information on danger of chemicals – labeling and safety data sheets), New Zealand Hazardous Substances (Hazard Classification) Notice 2020, Australian WorkSafe GHS 7, 2022, Singapore SS586, Chinese GHS standard. Korean MoEL classification is given separately.

Classification: Flammable Liquid Category 4, Skin Irritation Category 2, Skin Sensitization Category 1, Eye Damage/Corrosion Category 2A Signal Word: Warning

Hazard Statements: H227: Combustible liquid. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

Precautionary Statements:

Prevention: P210: Keep away from heat, sparks, open flames, hot surfaces. — No smoking. P261: Avoid breathing mists or sprays. P264 + P265: Wash hands and other contamination areas thoroughly after handling. Do not touch eyes.P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, protective clothing, eye protection, face protection.

Response: P370 + P378: In case of fire: Use materials appropriate for surrounding fire for extinction. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P333 + P317: If skin irritation or rash occurs, get medical attention. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. P337 + P317: If eye irritation persists: get medical help. P362 + P364: Take off contaminated clothing and wash it before reuse.

Storage: P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal: P501: Dispose of contents/containers in accordance with all local, regional, national and international regulations.

Hazard Symbols/Pictograms:

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KOREAN MOEL (Notice 2016-19) LABELING AND CLASSIFICATION: Classified in accordance with MoEL Notice 2016-19. Under the MoEL regulation, the classification is as follows.

Classification: Skin Irritation Category 2, Skin Sensitization Category 1, Eye Damage/Corrosion Category 2A

Signal Word: Warning

Hazard Statements: H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

Precautionary Statements:

Prevention: P261: Avoid breathing mists or sprays. P264 + P265: Wash hands and other contamination areas thoroughly after handling. Do not touch eyes.P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, protective clothing, eye protection, face protection.

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2. HAZARD IDENTIFICATION (Continued)

KOREAN MoEL (Notice 2016-19) LABELING AND CLASSIFICATION (continued):

Response: P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P333 + P317: If skin irritation or rash occurs, get medical attention. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. P337 + P317: If eye irritation persists: get medical help. P362 + P364: Take off contaminated clothing and wash it before reuse.

Storage: None applicable.

Disposal: P501: Dispose of contents/containers in accordance with all local, regional, national and international regulations.

Hazard Symbols/Pictograms:



PERCENT OF UNKNOWN ACUTE TOXICITY BY ROUTE OF EXPOSURE: Oral: 52.5%; Dermal: 52.5%; Inhalation: 79%

EMERGENCY OVERVIEW: Product Description: This product is a clear liquid with mild odor. **Health Hazards:** Inhalation and skin contact may cause irritation of contaminated tissue and sensitization of the skin. Eye contact may cause moderate to severe irritation. **Flammability Hazards:** This product is a combustible liquid which may ignite if heated above its calculated flash point of 64.5°C (148°F). If involved in a fire, the product may decompose to produce carbon and nitrogen oxides. **Reactivity Hazards:** This product is not reactive. **Environmental Hazards:** Not tested. This product may have adverse effects when released into the environment. **Emergency Recommendations:** Emergency responders must wear the personal protective equipment suitable for the situation to which they are responding.

3. COMPOSITION and INFORMATION ON INGREDIENTS

Chemical Name	CAS#	European EINECS#/ Index#	Japanese MITI/ENC #	Korean ECL#	New Zealand NZIoC#	Chinese IECSC Inventory	Taiwan NESCI ECS Inventory	Australian AICS	% w/w	LABEL ELEMENTS GHS under U.S. OSHA, Canadian WHMIS HPR-GHS & EU Classification (1272/2008), Japanese, New Zealand, Taiwan, Chinese and Korean Regulations Korean ISHA Classification Hazard Statements
Coco- amido- propyl Betaine	61789-40-0	263-058-8 No Index #	MITI #s: 2- 1290, 2- 2707. 9- 2027	KE- 041243	May be used under an appropriate group standard	Listed	Listed	Listed	30-35%	Notified EU ECHA Classification Classification: Skin Irritation Cat. 2, Skin Sensitization Cat. 1, Eye Irritation Cat. 2A Hazard Statements: H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.
Isopropyl Alcohol	67-63-0	200-661-7 603-117-00-0	2-207	KE- 29363	HSR001180	Listed	Listed	Listed	20-25%	GHS Under All Countries Harmonized Classification: Flammable Liquid Cat. 2, Eye Irritation Cat. 2A, Specific Target Organ Toxicity (Inhalation, Ingestion-Narcotic Effects) Single Exposure Cat. 3 Hazard Statements: H226: Flammable liquid and vapor. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.
Aloe Extract	85507-69-3	287-390-8	CHRIP ID# C023-566- 45A	None	May be used under an appropriate group standard	Listed	Listed	Listed	1-3%	GHS Under All Countries Classification: Flammable Liquid Cat. 3 Hazard Statements: H226: Flammable liquid and vapor.
Proprietary (Coloring	Green Food				Mixture				Trace	MFG Classification: Classification: Skin Irritation Cat. 2, Eye Irritation Cat. 2B, Specific Target Organ Toxicity (Inhalation-Respiratory Irritation) Single Exposure Cat. 3 Hazard Statements: H315 + H320: Causes skin and eye irritation. H335: May cause respiratory irritation.
Water contains	7732-18-5	231-791-2 No Index #	Not Identified in the Listing	KE- 35400	Excepted	Listed	Listed	Listed	Balance	Classification: Not Classified
Sodium Chloride	7647-14-5	231-598-3 No Index #	1-236	KE- 31387	May be used under an appropriate group standard					

See Section 15 for information on other country inventory listing of components, as applicable
The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

PROTECTION OF FIRST AID RESPONDERS: Rescuers should be taken for medical attention, if necessary. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation, if necessary.



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4. FIRST-AID MEASURES (Continued)

DESCRIPTION OF FIRST AID MEASURES: Victim(s) must be taken for medical attention. Take copy of label and MSDS to physician or other health professional with victim(s). Remove victim(s) to fresh air, as quickly as possible.

Skin Exposure: If this product contaminate the skin and adverse effect occurs, begin decontamination with running water. Minimum flushing is for 20 minutes. The contaminated individual must seek medical attention if any adverse effects occur after flushing.

GHS Precautionary Statements for Skin Exposure: P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P333 + P317: If skin irritation or rash occurs, get medical attention.

Eye Exposure: If this product enters the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have contaminated individual "roll" eyes. Minimum flushing is for 20 minutes. Contaminated individual must seek medical attention if adverse effect continues after flushing.

GHS Precautionary Statements for Eye Exposure: P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. P337 + P317: If eye irritation persists: get medical help.

Inhalation: If aerosols are inhaled and adverse effect occurs, remove victim to fresh air. The contaminated individual must seek medical attention if any adverse effects occur.

GHS Precautionary Statements for Inhalation Exposure: None applicable.

Ingestion: If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is <u>unconscious, having convulsions, or unable to swallow</u>. If victim is convulsing, maintain an open airway and obtain immediate medical attention.

GHS Precautionary Statements for Ingestion Exposure: None applicable.

MOST IMPORTANT SYMPTOMS and EFFECTS, WHETHER ACUTE OR DELAYED: See Sections 2 (Hazard Information) and 11 (Toxicological Information) for information.

Acute:

Symptoms/Effects: May cause irritation by contact with the skin, eyes and respiratory system. Eye irritation may be more pronounced. All potential effects are dependent on concentration and duration of exposure.

Symptoms/Effects After Inhalation: EXPOSURE TO HIGH CONCENTRATIONS: Coughing, or respiratory irritation.

Symptoms/Effects After Skin Contact: Mild to moderate irritation of eye tissue.

Symptoms/Effects After Skin Contact: Moderate to serious irritation of eye tissue.

Symptoms/Effects After Ingestion: Irritation of digestive system.

Chronic:

Symptoms/Effects After Skin Contact: Dermatitis (dry, red skin) possible skin sensitization and allergic reaction.

Symptoms/Effects After Eye Contact: None known.

Symptoms/Effects After Accidental Injection: None known.

Symptoms/Effects After Inhalation: None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin or respiratory conditions may be aggravated by exposure to this product.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT IF NEEDED: Treat symptoms and eliminate exposure.

COMPLIANCE WITH SAFE WORK AUSTRALIA MODEL CODE FIRST AID IN THE WORKPLACE CODE OF PRACTICE: Compliance with all requirements should be in place under Section 3 (First Aid Equipment, Facilities and Training) should be in place.

5. FIRE-FIGHTING MEASURES

FLASH POINT (calculated): ~64.5°C (~148°F) AUTOIGNITION TEMPERATURE: Not tested.

FLAMMABLE LIMITS (in air by volume, %): Not tested.

FIRE EXTINGUISHING MEDIA: Unless incompatibilities exist for surrounding materials, carbon dioxide, water spray, 'ABC' type chemical extinguishers, foam, dry chemical and halon extinguishers can be used to fight fires involving this product.

UNSUITABLE FIRE EXTINGUISHING MEDIA: None known.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE: This solution is expected to be a combustible liquid, which can ignite if heated to its calculated flash point. When involved in a fire, this material ignite and produce irritating vapors and toxic gases (e.g., carbon and nitrogen oxides, alcohols, various low weight hydrocarbons).

Explosion Sensitivity to Mechanical Impact: Not sensitive.

Explosion Sensitivity to Static Discharge: May be sensitive.

NFPA RATING
FLAMMABILITY

HEALTH

OTHER

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. If necessary, rinse fire-response equipment with soapy water before returning it to service.

GHS Statements for Fire Response: P370 + P378: In case of fire: Use materials appropriate for surrounding fire for extinction.

Australian HazChem Code: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. An accidental release may result in a fire. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Eliminate any possible sources of ignition prior to beginning. Proper protective equipment should be used.

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6. ACCIDENTAL RELEASE MEASURES (Continued)

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES (continued): Call CHEMTREC (1-800-424-9300) for emergency assistance. Or if in Canada, call CANUTEC (613-996-6666). The atmosphere must at least 19.5 percent Oxygen before non-emergency personnel can be allowed in the area without Self-Contained Breathing Apparatus and fire protection.

PERSONAL PROTECTIVE EQUIPMENT: Proper protective equipment should be used.

Small Spills: Wear rubber gloves, splash goggles, and appropriate body protection.

Large Spills: Minimum Personal Protective Equipment should be rubber gloves, rubber boots, face shield, and Tyvek suit. Minimum level of personal protective equipment for releases in which the level of oxygen is less than 19.5% or is unknown must be Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), chemical resistant suit, fire-retardant clothing and boots, hard hat, and Self-Contained Breathing Apparatus.

METHODS FOR CLEAN-UP AND CONTAINMENT:

Small Spills: Carefully absorb spill using polypads or other non-reactive absorbent. Place spilled material in appropriate container for disposal, sealing tightly. Remove all residue before decontamination of spill area.

Large Spills: Access to the spill area should be restricted. For large spills, dike or otherwise contain spill and absorb spill with polypads or other non-reactive absorbent material.

All Spills: Place all spill residue in a double plastic bag or other containment and seal. Decontaminate the area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations). For spills on water, contain, minimize dispersion and collect. Dispose of recovered material and report spill per regulatory requirements. Monitor area for combustible vapor levels and confirm levels are below exposure limits given in Section 8 (Exposure Controls-Personal Protection), if applicable, and that levels are below applicable LELs (see Section 5 – Fire Fighting Measures) before non-response personnel are allowed into the spill area.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Run-off water may be contaminated by other materials and should be contained to prevent possible environmental damage.

REFERENCE TO OTHER SECTIONS: See information in Section 8 (Exposure Controls – Personal Protection) and Section 13 (Disposal Considerations) for additional information.

7. HANDLING and STORAGE

PRECAUTIONS FOR SAFE HANDLING: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing aerosols from the product. Keep away from incompatible materials (see Section 10, Stability and Reactivity). Containers of this product must be properly labeled. Use in a well-ventilated location. Remove contaminated clothing.

GHS Statements for Safe Handling: P261: Avoid breathing mists or sprays. P264 + P265: Wash hands and other contamination areas thoroughly after handling. Do not touch eyes.P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, protective clothing, eye protection, face protection.

CONDITIONS FOR SAFE STORAGE and INCOMPATIBILITIES: Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Have appropriate extinguishing equipment in the storage area (such as sprinkler systems or portable fire extinguishers). Empty containers may contain residual product; therefore, empty containers should be handled with care. May be incompatible with water reactive materials and strong oxidizers.

GHS Statements for Safe Storage: P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

SPECIFIC USE(S): This product is for use as a remover of stencil solution for tissue-staining paint. Follow all industry standards for use of this product.

AUSTRALIAN MODEL WORK HEALTH SAFETY REGULATION: Under the Model , Part 5.5, Division 6, of April 2022 If a jurisdiction adopts Schedule 1 to the Act in relation to dangerous goods, the following provision may be inserted: This Part applies to the handling or storage of dangerous goods listed in column 2 of table 328, other than at a workplace, if the quantity of the dangerous goods is more than the relevant threshold for Flammable Liquids Category 4 (per GHS), Class 1 (C1) Combustible liquids of 1000 L or more, requirements under the Regulation must be met. Storage of any quantity of Flammable Liquids Category 4 requires that the following placard be displayed on containers of the liquid or in the area of storage:



The lettering of the placards must be black on a white or silver background, with the lettering being 100 mm tall or more.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/CONTROL PARAMETERS:

Ventilation and Engineering Controls: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided in this section. Use local exhaust ventilation. Normal office ventilation conforming to the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) Standards is adequate under normal circumstances of use. Persons using this material should consult a qualified Ventilation Engineer and/or Industrial Hygienist if concerns about exposure arise. If necessary, refer to Australian National Code of Practice for the Control of Workplace Hazardous Substances [NOHSC: 2007 (1994)] for further information.

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8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

EXPOSURE LIMITS/CONTROL PARAMETERS (continued):

U.S. Workplace Exposure Limits/Control Parameters:

CHEMICAL NAME	CAS#	EXPOSURE LIMITS IN AIR								
		ACGIH-TLVs		OSHA-PELs		NIOSH-RELS		NIOSH	OTHER	
		TWA mg/m ³	STEL mg/m ³	TWA mg/m³	STEL mg/m ³	TWA mg/m ³	STEL mg/m³	IDLH mg/m ³	mg/m³	
Isopropyl Alcohol	67-63-0	492	984	980	500 ppm (vacated 1989 PEL)	980	1225	2000 ppm (based on LEL)	DFG MAK: TWA = 500 ppm PEAK = 2•MAK, 15 min., average value, 1- hr interval, 4 per shift DFG MAK Pregnancy Risk Classification: C	

NE = Not Established.

PAHs = Polycyclic Aromatic Hydrocarbons See Section 16 for Definitions of Other Terms Used

Australian Hazardous Chemical Information System (HMIS) Exposure Standards:

CHEMICAL NAME	CAS#	EXPOSURE STANDARDS				
		TWA ppm	TWA mg/m ⁻³	STEL ppm	STEL mg/m ⁻³	Notes
Isopropyl Alcohol	67-63-0	400	983	500	1230	Not Applicable

NE = Not Established

UK Minimum Exposure Limits:

CHEMICAL NAME	CAS#	WORKPLACE EXPOSURE LIMIT							
			xposure Limit		Exposure Limit	Comments			
		(8-Hrs TWA Reference Period)		(15-minute Reference Period)		The Carcin, Sen and Skin notations are not exhaustive. Notations have			
		ppm	mg.m ⁻³	ppm	mg.m ⁻³	been applied to substances identified in IOELV Directives			
Isopropyl Alcohol	67-63-0	67-63-0 400 999 500 1250		NE					

NE = Not Established

Workplace Exposure Standards (New Zealand): Refer to the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations 2001 (Regulations 29-30).

Workplace Exposure Standards (New Zealand) (continued):

CHEMICAL NAME	CAS#	WORKPLACE EXPOSURE STANDARDS				
		TWA ppm	TWA mg/m ⁻³	STEL ppm	STEL mg/m ⁻³	Notes
Isopropyl Alcohol	67-63-0	400	983	500	1230	Not Applicable

Exposure Standards Outside the Workplace (New Zealand): Currently, there are no other exposure limits, such as TELS and EELS (See Section 12 [Ecological Information] for EEL information) established for components of this product.

Other International Occupational Exposure Limits: Currently, the following international limits established for components of this products

sopropyl	Alco	hol		

Limit Value - Eight Hours 200 ppm; 500 mg/m³ 800 ppm; 2000 mg/m³ Belgium Canada (Ontario) 200 ppm; 500 mg/m3 400 ppm (1); 1000 mg/m⁸ (1) 200 ppm 400 ppm Canada (<u>Québec</u>) Denmark 400 ppm; 983 mg/m³ 200 ppm; 490 mg/m³ 500 ppm; 1230 mg/m³ 400 ppm; 980 mg/m³ Finland 200 ppm; 500 mg/m³ 250 ppm (1); 620 mg/m3 (1) France 400 ppm; 980 mg/m3 400 ppm (1); 1000 mg/m³ (1) Germany (AGS) 200 ppm; 500 mg/m³ 200 ppm; 500 mg/m³ 500 mg/m³ Germany (DFG) 400 ppm (1); 1000 mg/m³ (1) 2000 mg/m Hungary Ireland 200 ppm 400 ppm (1) Japan (MHLW) 200 ppm Japan JSOH 400 ppm (1); 980 mg/m3 (1) Latvia 350 mg/m³ 100 ppm; 245 mg/m³ 600 mg/m3 (1) Norway People's Republic of China 350 mg/m³ 700 mg/m³ (1) 900 mg/m³ 81 ppm; 200 mg/m³ Poland Romania Singapore 400 ppm; 983 mg/m³ 200 ppm; 480 mg/m³ 500 ppm; 1230 mg/m³ 400 ppm; 980 mg/m³ South Korea 200 ppm; 500 mg/m³ 150 ppm; 350 mg/m³ Spain 400 ppm; 1000 mg/m³ 250 ppm (1); 600 mg/m³ (1) Sweden 400 ppm; 1000 mg/m³ 200 ppm; 500 mg/m³ Remarks
(1) 15 minutes average value. Belgium Finland (1) 15 minutes average value. Germany (AGS) (1) 15 minutes average value. Germany (DFG) (1) 15 minutes average value. Ireland (1) 15 minutes average value. Japan - JSOH (1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day. Latvia (1) 15 minutes average value.

1200 mg/m³ 203 ppm (1); 500 mg/m³ (1)

Limit Value - Short Term



Romania Sweden

People's Republic of China

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(1) 15 minutes average value. (1) 15 minutes average value.

(1) 15 minutes average value.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION (Continued)

BIOLOGICAL MONITORING AND THE SOURCE OF THOSE VALUES:

U.S. ACGIH Biological Exposure Indices (BEIs): Currently, the following Biological Exposure Indices (BEIs) have been established for the Isopropyl Alcohol component of this product.

CHEMICAL: DETERMINANT	SAMPLING TIME	BEI
Isopropyl Alcohol (listed as 2-propanol) • Acetone in Urine	End of Shift at End of Workweek	• 40 mg/L

UK Biological Monitoring Guidance Values (BMGVs): Currently, no BMGVs have been established for the components of this product.

Appendix E-Schedule 14 (Requirements for Health Monitoring) per Australia Safe Work Code of Practice Managing Risks and Hazardous Chemicals in the Workplace: Currently, no component of this product has an established monitoring requirement value.

PROTECTIVE EQUIPMENT: The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132, including U.S. Federal OSHA Respiratory Protection (29 CFR 1910.134), OSHA Eye Protection 29 CFR 1910.133, OSHA Hard Protection 29 CFR 1910.138, OSHA Foot Protection 29 CFR 1910.136 and OSHA Body Protection 29 CFR1910.132), equivalent standards of Canada (including CSA Respiratory Standard Z94.4-02, Z94.3-M1982, Industrial Eye and Face Protectors and CSA Standard Z195-02, Protective Footwear), standards of EU member states (including EN 529:2005 for respiratory PPE, CEN/TR 15419:2006 for hand/body protection, and CR 13464:1999 for face/eye protection), standards of Australia (including AS/NZS 1715:1994 for respiratory PPE, AS/NZS 4501.2:2006 for protective clothing, AS/NZS 2161.1:2000 for glove selection, and AS/NZS 1336:1997 for eye protection), or standards of Japan (including JIS T 8116:2005 for glove selection, JIS T 8150:2006 for respiratory PPE, JIS T 8147:2003 for eye protectors, and JIS T 8030:2005 for protective clothing). Please reference applicable regulations and standards for relevant details.

Respiratory Protection: Maintain airborne contaminant concentrations below exposure limits listed in this section, if applicable. If respiratory protection is needed, use only protection authorized in applicable regulations. Oxygen levels below 19.5% are considered IDLH by U.S. OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998). The following are U.S. NIOSH Respiratory Equipment Guidelines for Isopropyl Alcohol and are provided to assist in selection of respiratory PPE in event of presence of aerosols.

Isopropyl Alcohol Concentration

Respiratory Protection

Any Supplied-Air Respirator (SAR) operated in a continuous-flow mode, or any Chemical Cartridge Respirator with a full facepiece and Up to 2000 ppm: organic vapor cartridge(s), or any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any Powered, Air-Purifying Respirator (PAPR) with organic vapor cartridge(s), or any Self-Contained Breathing

Apparatus (SCBA) with a full facepiece, or any SAR with a full facepiece.

Fmergency or Planned Entry into Unknown Concentrations or IDLH Conditions; Any SCBA that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in

combination with an auxiliary SCBA operated in pressure-demand or other positive-pressure mode.

Escape: Any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister, or any

appropriate escape-type, SCBA.

Eye Protection: Depending on the use of this product, splash goggles or safety glasses may be worn. Use goggles or safety glasses for spill response, as stated in Section 6 (Accidental Release Measures) of this SDS. If necessary, refer to appropriate regulations when selecting eye protection.

Hand Protection: Wear butyl rubber, neoprene, or nitrile rubber or latex gloves for routine use. If necessary, refer to appropriate regulations for further information.

Body Protection: Use body protection appropriate for task, such as a lab coat. If necessary, use body protection appropriate for task (e.g., Tyvek suit, rubber apron). If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in appropriate regulations.

9. PHYSICAL and CHEMICAL PROPERTIES

FORM: Liquid. MOLECULAR FORMULA: Mixture.

ODOR: Mild.

VAPOR DENSITY (air = 1): Not established. SPECIFIC GRAVITY (water = 1): Not established.

SOLUBILITY IN WATER: Soluble VAPOR PRESSURE: Not established.

OXIDIZING PROPERTIES: Not applicable.

FLAMMABILITY: Not flammable.

AUTOIGNITION TEMPERATURE: Not applicable.

COLOR: Clear, colorless.

MOLECULAR WEIGHT: Mixture.

ODOR THRESHOLD: Not established. EVAPORATION RATE (n-BuAc = 1): < 1

MELTING/FREEZING POINT: Not established. **BOILING POINT:** Not established.

pH: Not established. PERCENT SOLIDS: 0%

FLASH POINT: Not applicable.

EXPLOSIVE PROPERTIES: Not applicable.

COEFFICIENT OF OIL/WATER DISTRIBUTION (PARTITION COEFFICIENT): Not established.

HOW TO DETECT THIS SUBSTANCE (identification properties): The odor of this product may be a distinguishing characteristic to identify it event of a spill.

10. STABILITY and REACTIVITY

CHEMICAL STABILITY: Stable under conditions of normal temperature and pressure.

DYNAMIC

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BODY

(BLUE)

(YELLOW)

10. STABILITY and REACTIVITY (Continued)

DECOMPOSITION PRODUCTS:

Combustion: If exposed to extremely high temperatures, this product can decompose to generate carbon and nitrogen oxides, alcohols, various low weight hydrocarbons. Hydrolysis: None known.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers, water-reactive materials. Due to the Isopropyl Alcohol component, this product may attack some types of plastic, including nylon, rigid polyurethane, general-purpose isophthalic and terephthalic (PET) thermoset polyesters and acrylonitrile-butadiene-styrene (ABS) (after 7 days); and elastomers, such as polyacrylate, polyurethane and nylon 12 at normal temperatures.

POSSIBILITY OF HAZARDOUS REACTION OR POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Exposure to or contact with extreme temperatures and incompatible chemicals.

11. TOXICOLOGICAL INFORMATION

SYMPTOMS OF EXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of occupational exposure are inhalation and contact with skin and eyes. The symptoms of exposure to this material, via route of entry, are as described below.

Inhalation: This product does not normally present a significant inhalation hazard under anticipated circumstances of use. Inhalation of vapors, mists, or sprays of this material may mildly irritate the nose, throat, and other tissues of the respiratory system. Inhalation of high concentration of vapors may cause adverse symptoms to the central nervous system due to the Isopropyl Alcohol component.

Contact with Eyes: Direct eye contact with this solution will cause moderate to severe irritation of the eyes, causing pain, tearing, and redness.

Contact with Skin: Acute skin exposure may be irritating. Repeated or prolonged skin exposure may cause dermatitis (dry, red skin). Due to the Cocoamidopropyl Betaine component, skin contact may cause sensitization and allergic reaction in sensitive individuals.

Skin Absorption: The Isopropyl Alcohol component is known to be absorbed via intact skin; however, no significant adverse effects are expected by this route.

Ingestion: Though not anticipated to be a significant route of occupational exposure, ingestion of large quantities of this material may cause nausea, vomiting, diarrhea.

Injection: Accidental injection of this liquid (as may occur by a puncture with a contaminated object) will cause local pain, irritation, and redness.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: In the event of exposure, the following symptoms may be observed:

Short Term: Eye, skin or inhalation may cause mild, transient irritation. Ingestion of large amounts may cause nausea, vomiting, diarrhea.

Long Term: Repeated or prolonged skin exposure may cause dermatitis (dry, red skin).

TARGET ORGANS:

Short Term: Skin, respiratory system, eyes, central nervous system.

Long Term: Skin.

OVERALL ACUTE TOXICITY ESTIMATES (ATE) FOR PRODUCT:

Oral Route: > 25,600 mg/kg; Dermal Route: 5871 mg/kg; Inhalation Route: > 47,619 mg/L

TOXICITY DATA FOR COMPONENTS: Currently, there following toxicity data for components of this product in 1% concentration or greater.

Cocoamidopropyl Betaine:

LD₅₀ (Oral-Rat) > 5000 mg/kg (OECD 401)

LD₅₀ (Skin-Rabbit) > 2000 mg/kg (EPA 2001)

LCsn (Inhalation-Rabbit) No Data

Isopropyl Alcohol:

LDLo (Oral-Man): 5272 mg/kg; Behavioral: coma; Vascular: BP lowering not characterized in autonomic section; Lungs, Thorax, or Respiration: chronic pulmonary edema

LDLo (Oral-Human): 3570 mg/kg; Behavioral: coma; Lungs, Thorax, or Respiration: respiratory depression; Gastrointestinal: nausea or vomiting

LDLo (Unreported-Man) = 2770 mg/kg

Isopropyl Alcohol (continued):

TDLo (Oral-Man): 14,432 mg/kg; Behavioral: coma; Vascular: BP lowering not characterized in autonomic section; Lungs, Thorax, or Respiration: dyspnea

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

PROTECTIVE EQUIPMENT

For Routine Industrial Use and Handling Applications

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

HANDS

HEALTH HAZARD

FLAMMABILITY HAZARD

RESPIRATORY

SEE SECTION 8

PHYSICAL HAZARD

EYES

8

TDLo (Oral-Human): 223 mg/kg; Behavioral: hallucinations, distorted perceptions; Cardiac: pulse rate; Vascular: BP lowering not characterized in autonomic section TDLo (oral, infant) = 13 gm/kg; Behavioral: somnolence (general depressed activity), irritability; Gastrointestinal: nausea or vomiting

Skin Irritancy (Rabbit): 500 mg; mild Eye Irritancy (Rabbit): 100 mg; severe LD₅₀ (Oral-Rat) 5840 mg/kg (OECD 401) LD₅₀ (Skin-Rabbit) 16,400 mg/kg (OECD 402)

LD₅₀ (Inhalation-Rat) 4 hours: > 10,000 mg/L (OECD 403)

REPEATED DOSE TOXICITY: No component has demonstrated repeated dose toxicity in either animal testing or though workplace data. CARCINOGENIC POTENTIAL OF COMPONENTS: Components of this product are listed by agencies tracking the carcinogenic potential of chemical compounds, as follows.

Isopropyl Alcohol: ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen); IARC-3 (Not Classifiable as to Carcinogenicity to Humans)

The remaining components of this product are not found on the following lists: U.S. EPA, U.S. NTP, U.S. OSHA, U.S. NIOSH, GERMAN MAK, IARC, and ACGIH, and therefore are neither considered to be nor suspected to be cancer-causing agents by these agencies. IRRITANCY OF PRODUCT: Acute exposure to this product may cause irritation to the skin, eyes and respiratory system. Eye irritation

may be more severe.

ENDOCRINE TOXICITY: No component is known or suspected to be an endocrine disruptor.



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11. TOXICOLOGICAL INFORMATION (Continued)

SENSITIZATION TO THE PRODUCT: The Cocoamidopropyl Betaine component has shown skin sensitization effects in both animal and human data.

Cocoamidopropyl Betaine: In various studies, Cocoamidopropyl Betaine has been investigated for potential to cause dermal sensitization to a greater or lesser extent. The studies are based on in vivo experiments in humans, guinea pigs for the target chemical. The results of GPMT test and various patch test indicate a possibility that test chemical could have a potential to cause sensitization to skin. Available data indicates that it is likely to induce dermal reactions; hence, Cocoamidopropyl Betaine can be considered to be sensitizing to skin.

REPRODUCTIVE TOXICITY INFORMATION: No component of this product is known to have mutagenic, embryotoxic, teratogenic or reproductive toxicity effects in humans.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

MOBILITY: This product has not been tested for mobility in soil. It is expected to be highly mobile in soil.

PERSISTENCE AND BIODEGRADABILITY: This product has not been tested for persistence or biodegradability. It is expected that some biodegradation will occur to this product; however, no specific information is known.

BIO-ACCUMULATION POTENTIAL: No component of this product presents a bio-accumulation potential.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: This product may be harmful to plant or animal life, especially if large volumes of this product is released.

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product has not been tested for aquatic toxicity. The following are aquatic toxicity data for components in greater than 1% or more.

Cocoamidopropyl Betaine:

regulations.

LC₅₀ (Danio reiro Zebrafish) 96 hrs: 2 mg/L (No Guideline info)

EC₅₀ (Daphnia Magna Giant Water flea) 24 hrs: 6.4 mg/L (OECD 202)

 EC_{10} (freshwater algae) 96 hours: 1.84 mg/L to 48 mg/l (No Guideline info) Note:

Since Cocoamidopropyl Betaine is readily biodegradable in nature test chemical is considered to be non-toxic and cannot be classified as per CLP regulation.

Isopropyl Alcohol:

 LC_{50} (Carassius auratus Goldfish) 96 hrs: 9640 mg/L (US EPA Committee on Methods for Toxicity Tests with Aquatic Organisms)

EC₅₀ (Daphnia Magna Giant Water flea) 24 hrs: 10,00 mg/L (OECD 202)

EC₁₀ (Scenedesmus quadricauda freshwater algae) 8 days: 1800 mg/L (No Guideline info)

OTHER ADVERSE EFFECTS: This product does not contain any component with known ozone depletion potential.

RESULTS OF PBT AND vPvB ASSESSMENT: No Data Available. PBT and vPvB assessments are part of the chemical safety report required for some substances in European Union Regulation (EC) 1907/2006, Article 14.

ENDOCRINE DISRUPTORS: No component has been shown to be or is suspected to cause endocrine disruption to terrestrial or aquatic animals.

ENVIRONMENTAL EXPOSURE CONTROLS: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

GHS Statements for Environmental Exposure Controls: Not applicable.

13. DISPOSAL CONSIDERATIONS

PRECAUTIONS TO BE FOLLOWED DURING WASTE HANDLING: Wear proper protective equipment when handling waste materials.

GHS Statements for Waste Handling: P501: Dispose of contents/containers in accordance with all local, regional, national and international

DISPOSAL CONTAINERS: Waste materials must be placed in and shipped in appropriate 5-gallon or 55-gallon poly or metal waste pails or drums. Permeable cardboard containers are not appropriate and should not be used. Ensure that any required marking or labeling of the containers be done to all applicable regulations.

DISPOSAL METHODS: It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste per regulations of the jurisdiction in which the waste is generated and/or disposed of. Waste disposal must be in accordance with appropriate Federal, State, Provincial and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Shipment of wastes must be done with appropriately permitted and registered transporters.

U.S. EPA WASTE NUMBER: Not applicable to wastes consisting only of this product .

CANADIAN HAZARDOUS WASTE REGULATIONS: As supplied, this product should be tested to see if it meets the criteria of hazardous wastes per Canadian Environmental Protection Agency) regulations and the Canadian Environmental Protection Act, 1999 (CEPA).

Canadian Environmental Protection Act (CEPA) Priority Substances Lists: The Isopropyl Alcohol component is listed as a Substance With Greatest Potential For Human Exposure Substance on Environment Canada/Health Canada Pilot Project List (CEPA 1999, Section 73). Meets categorization criteria: *may present, to individuals in Canada, the greatest potential for exposure; or *are persistent or bioaccumulative in accordance with the regulations, and inherently toxic to human beings or to non-human organisms, as determined by laboratory or other studies.

EUROPEAN WASTE CODES FOR PRODUCT: Wastes from MFSU and Removal of Printing Inks: 08 03 99: Wastes Not Otherwise Specified

EU WASTE FRAMEWORK DIRECTIVE, ANNEX III - WASTE - HAZARDOUS PROPERTIES: This product does not meet the criteria of any hazardous waste property. The components of this product have designated waste codes as listed below.

Isopropyl Alcohol: HP3 Flammable Waste (FW); HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

AUSTRALIAN HAZARDOUS WASTE REGULATIONS: As supplied, this product should be tested to see if it meets the criteria of hazardous wastes per Australian Department of Agriculture, Water and the Environment regulations. If wastes are to be exported,

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they should be tested to see if they have requirements under the Australian Hazardous Waste (Regulation of Exports and Imports) Act 1989 and further of the Basel Convention where the waste has any of the characteristics mentioned in Annex III to the Basel Convention.

14. TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101. Combustible liquids transported in non-bulk packages are entirely exempt from US DOT's HMR unless they also meet the definition of a hazardous substance, hazardous waste, or a marine pollutant [49 CFR 173.150(f)(2)]. A non-bulk packaging is one with a maximum capacity of 450 L (119 gals) or less for liquids. Anything with a maximum capacity greater than that is considered a bulk packaging [49 CFR 171.8].

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is NOT classified as dangerous goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is NOT classified as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is NOT classified as dangerous goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is NOT classified by the United Nations Economic Commission for Europe to be dangerous goods.

AUSTRALIAN FEDERAL OFFICE OF ROAD SAFETY CODE FOR THE TRANSPORTATION OF DANGEROUS GOODS BY ROAD OR RAIL: This product is NOT classified as dangerous goods, per regulations of the Australian Federal Office of Road Safety. Combustible Liquids are not classified as dangerous goods for transport purposes. No placarding is required by this Code on a portable tank or tank vehicle transporting only C1 liquid. However, industry practice is often to display "Combustible Liquid" in the area normally used for placarding a tanker.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: Not applicable.

ENVIRONMENTAL HAZARDS: This product is neither environmentally hazardous according to the criteria of the UN Model Regulations (as reflected in the IMDG Code, ADR, RID, and ADN); no component meets the criteria of environmentally hazardous.

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

U.S. SARA Reporting Requirements: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act and are listed as follows:

CHEMICAL NAME	SARA 302	SARA 304	SARA 313
	(40 CFR 355, Appendix A)	(40 CFR Table 302.4)	(40 CFR 372.65)
Isopropyl Alcohol (mfg-strong acid process)	No	No	Yes

U.S. SARA Threshold Planning Quantity (TPQ): There are no specific Threshold Planning Quantities for this material. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA Reportable Quantity (RQ): Not applicable.

U.S. TSCA Inventory Status: The components of this product are listed on the TSCA Inventory.

U.S. Hazardous Air Pollutant (HAPs): The components of this product are not listed by the EPA under section 112(b) of the Clean Air Act as a 'HAP'. U.S. Clean Air Act (CA 112r) Threshold Quantity (TQ): Not applicable.

California Safe Drinking Water And Toxic Enforcement Act (Proposition 65): No component is on the is on the California Proposition 65 Lists.

CANADIAN REGULATIONS:

Canadian DSL/NDSL Inventory Status: Components listed by CAS# in Section 3 (Composition and Information on Ingredients) are listed on the DSL Inventory

Canadian WHMIS HPR 2015 Classification and Symbols: Not classified.

EUROPEAN UNION REGULATIONS:

Safety, Health, and Environmental Regulations/Legislation Specific for the Product: Currently, there is no specific legislation pertaining to this product.

Chemical Safety Assessment: No data available. The chemical safety assessment is required for some substances according to European Union Regulation (EC) 1907/2006, Article 14.

AUSTRALIAN REGULATIONS:

Australian Inventory Of Chemical Substances (AICS) Status: Components listed by CAS# in Section 3 (Composition and Information on Ingredients) are listed on the AICS.

Hazardous Substances Information System (HSIS): Components listed by CAS# in Section 3 (Composition and Information on Ingredients) are not listed in the HSIS.

Standard for the Uniform Scheduling of Drugs and Poisons: Not applicable.

CHINESE REGULATIONS:

Chinese Inventory of Existing Chemical Substances Status: Components listed by CAS# in Section 3 (Composition and Information on Ingredients) are on the Chinese Inventory of Existing Chemical Substances (IECSC).

JAPANESE REGULATIONS:

Japanese ENCS Inventory: Components listed by CAS# in Section 3 (Composition and Information on Ingredients) are on the ENCS Inventory or are excepted.

Japanese Ministry of Economy, Trade, and Industry (METI) Status: Components listed by CAS# in Section 3 (Composition and Information on Ingredients) are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese METI.

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Poisonous and Deleterious Substances Control Law: Components listed by CAS# in Section 3 (Composition and Information on Ingredients) are not listed as a Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

15. REGULATORY INFORMATION (Continued)

Korean Existing Chemical Substances Inventory Status: Components are listed on the Korean Existing Chemicals List, as indicated in composition tables in Section 3 (Composition and Information on Ingredients).

NEW ZEALAND REGULATIONS:

New Zealand Inventory of Chemicals (NZIoC): Components listed by CAS# in Section 3 (Composition and Information on Ingredients) are on the N7IoC

MEXICAN REGULATIONS:

Mexican Workplace Regulations (NOM-018-STPS-2000): This product is not classified as hazardous.

Taiwan Existing Chemical Substances Inventory Status: Components listed by CAS# in Section 3 (Composition and Information on Ingredients) are listed on the Taiwan Existing Chemicals List.

16. OTHER INFORMATION

REFERENCES AND DATA SOURCES: Contact the supplier for information. REVISION DETAILS: New.

METHODS OF EVALUATING INFORMATION FOR THE PURPOSE OF CLASSIFICATION: Bridging principles were used to classify this product .

PREPARED BY: CHEMICAL SAFETY ASSOCIATES, Inc., PO Box 1961, Hilo, HI 96721, 808/969-4846



The data in this Safety Data Sheet is true and accurate to the best of Dynamic Color Company's knowledge. However, since data, safety standards, and government regulations are subject to change conditions of handling, use, or misuse are beyond the control of Dynamic Color, Dynamic Color Company MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. The user is required to comply with all laws and regulations relating to the purchase, use, storage, and disposal of the product. User must be familiar with and follow generally accepted safe handling procedures of chemicals, and is solely responsible for any effects caused by its misuse or mixing of this chemical with any other

DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on an SDS. Some of these, which are commonly used, include the following CAS#: This is the Chemical Abstract Service Number that uniquely identifies each constituent.

EXPOSURE LIMITS IN AIR:

CEILING LEVEL: The concentration that shall not be exceeded during any part of the working exposure.

DFG MAK Germ Cell Mutagen Categories: 1: Germ cell mutagens which have been shown to increase the

mutant frequency in the progeny of exposed humans. 2: Germ cell mutagens which have been shown to increase the mutant frequency in the progeny of exposed mammals. 3A: Substances which have been shown to induce genetic damage in germ cells of human of animals, or which produce mutagenic effects in somatic cells of mammals in vivo and have been shown to reach the germ cells in an active form. 3B: Substances which cells of mammals in vivo and have been shown to reach the germ cells in an active form. 38: Substances which are suspected of being germ cell mutagens because of their genotoxic effects in mammaliar on matic cell in vivo; in exceptional cases, substances for which there are no in vivo data, but which are clearly mutagenic in vitro and structurally related to known in vivo mutagens. 4: Not applicable (Category 4 carcinogenic substances are those with non-genotoxic mechanisms of action. By definition, germ cell mutagens are genotoxic. Therefore, a Category 4 for germ cell mutagens cannot apply. At some time in the future, it is conceivable that a Category 4 could be established for genotoxic substances with primary targets other than DNA [e.g., purely aneugenic substances] if research results make this seem sensible.) 5: Germ cell mutagens, the potency of which is considered to be so low that, provided the MAK value is observed, their contribution to genetic risk for humans is expected not to be significant.

DFG MAK Pregnancy Risk Group Classification: Group A: A risk of damage to the developing embryo or fetus DHO MARK Pregnancy Nisk Group Classification: Group A: A nisk or damage to the developing emory of retus has been unequivocally demonstrated. Exposure of pregnant women can cause damage of the developing organism, even when MAK and BAT (Biological Tolerance Value for Working Materials) values are observed. Group B: Currently available information indicates a risk of damage to the developing embry or fetus must be considered to be probable. Damage to the developing organism cannot be excluded when pregnant women are exposed, even when MAK and BAT values are observed. Group C: There is no reason to fear risk of damage to the developing embryo or fetus when MAK and BAT values are observed. Group D: Classification in one of the groups A-C is not yet possible because, although the data available may indicate a trend, they are not sufficient for final evaluation.

IDUH-Immediately Dangerous to Life and Health: This level represents a concentration from which one can

cape within 30-minutes without suffering escape-preventing or permanent injury.

LOQ: Limit of Quantitation.

MAK: Federal Republic of Germany Maximum Concentration Values in the workplace.

NE: Not Established. When no exposure guidelines are established, an entry of NE is made for reference.

NIC: Notice of Intended Change.

MIOSH CEILING: The exposure that shall not be exceeded during any part of the workday. If instantaneous monitoring is not feasible, the ceiling shall be assumed as a 15-minute TWA exposure (unless otherwise specified) that shall not be exceeded at any time during a workday.

NIOSH RELs: NIOSH's Recommended Exposure Limits.

PEL-Permissible Exposure Limit: OSHA's Permissible Exposure Limits. This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL that was vacated by Court Order.

SKIN: Used when a there is a danger of cutaneous absorption.

STEL-Short Term Exposure Limit: Short Term Exposure Limit, usually a 15-minute time-weighted average (TWA) exposure that should not be exceeded at any time during a workday, even if the 8-hr TWA is within the TLV-TWA, PEL-TWA or REL-TWA.

TLV-Threshold Limit Value: An airborne concentration of a substance that represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration

is generally believed that hearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour.

TWA-Time Weighted Average: Time Weighted Average exposure concentration for a conventional 8-hr (TLV, PEL) or up to a 10-hr (REL) workday and a 40-hr workweek.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS: This rating system was developed by the National Paint and Coating Association and has been adopted by industry to identify the degree of chemical hazards.

identity the degree of chemical hazards: No significant health risk, irritation of skin or eyes not anticipated. Skin Irritation: Essentially non-irritating. Pil or Draize = "0". Eye Irritation: Essentially non-irritating. Pil or Draize = "0". Eye Irritation: Essentially non-irritating, or minimal effects which clear in < 24 hours [e.g., mechanical irritation]. Draize = 0". Oral Toxicity LO₂₀Rat < S000 mg/kg. Dermal Toxicity LO₂₀Rat or Rabbit: < 2000 mg/kg. Inhalation Toxicity 4-hrs LC₃₀ Rat: < 20 mg/L];

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS (continued):

HEALTH HAZARD (continued): 1 (Slight Hazard): Minor reversible Injury may occur; slightly or mildly irritating. Skin Irritation: Slightly or mildly irritating. Eye Irritation: Slightly or mildly irritating. Oral Toxicity LD₅₀ Rat: > 500-5000 mg/kg. Dermal Toxicity LD₅₀Rat or Rabbit: > 1000-2000 mg/kg. Inhalation Toxicity LC₅₀ 4-hrs Rat: > 2-20 Sood marke, Derma Toxicity Li₂₀-hat or Nation: > 1000-2000 mg/kg, inflation Toxicity Li₂₀ 4-hrs Nat. > 2-20 mg/L); Chloderate Hazard): Temporary or transitory injury may occur. Skin Irritation; infration: Moderately to severely irritating and/or corrosive; reversible comeal opacity; corneal involvement or irritation clearing in 8-21 days. Draize > $0, \le 25$. Oral Toxicity Li₂₀-Rat: > 50-500 mg/kg. Dermal Toxicity Li₂₀-Rat or Rabbit: > 200-1000 mg/kg. 3 (Serious Hazard): Major injury likely unless prompt action is taken and medical treatment is given; high level of toxicity; corrosive. Skin Irritation: Severely irritating and/or corrosive: may destroy dermal tissue, cause skin burns. dermal necrosis. PII or Draize > 5-8 with destruction of tissue. Eye Irritation: Corrosive, irreversible destruction of ocular tissue; comeal involvement or irritation persisting for more than 21 days. Draize > 80 with effects irreversible in 21 days. Oral Toxicity LD₂₀ Rat: > 1-50 mg/kg. Dermal Toxicity LD₂₀ Rat or Rabbit: > 20-200 mg/kg. Inhalation Toxicity LC₂₀ 4-hrs Rat: > 0.05-0.5 mg/L); 4 (Severe Hazard: Life-threatening; major or permanent damage may result from single or repeated exposure. Skin Irritation: Not appropriate. Do not rate as a "4", based on skin irritation alone. Eye Irritation: Not appropriate. Do not rate as a "4", based on eye irritation. Oral Toxicity LD₂₀ Rat: ≤ 1 mg/kg. Dermal Toxicity LD₂₀Rat or Rabbit: ≤ 20 mg/kg. Inhalation Toxicity LC₂₀ 4-hrs Rat: ≤ 0.05 mg/L). dermal necrosis. PII or Draize > 5-8 with destruction of tissue. Eye Irritation: Corrosive, irreversible destruction

FLAMMABILITY HAZARD: 0 (Minimal Hazard-Materials that will not burn in air when exposure to a temperature of 815.5°C [1500°F] for a period of 5 minutes.); 1 (Slight Hazard-Materials that must be pre-heated before ignition can occur. Material require considerable pre-heating, under all ambient temperature conditions before ignition and combustion can occur, Including: Materials that will burn in air when exposed to a temperature of 815.5°C (1500°F) for a period of 5 minutes or less; Liquids, solids and semisolids having a flash point at or above 93.3°C [200°F] (e.g. OSHA Class IIIB, or, Most ordinary combustible materials [e.g. wood, paper, etc.]; 2 (Moderate Hazard-Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. Materials in this degree would not, under normal conditions, form hazardous atmospheres in air, but under high ambient temperatures or moderate heating may release vapor in sufficient quantities to produce hazardous atmospheres in air, Including: Liquids having a flash-point at or above 37.8°C [100°F]; Solid materials in the form of course dusts that may burn rapidly but that generally do not form explosive atmospheres; Solid materials in a fibrous or shredded form that may burn rapidly and create flash fire hazards (e.g. cotton, sisal, hemp; Solids and semisolids that readily give off flammable vapors.); 3 (materials that, under emergency conditions, can cause serious or permanent injury): Gases and vapors whose LC_{20} for actue inhalation toxicity is greater than 1,000 ppm but less than or equal to 3,000 ppm. Dusts and mists whose LC_{20} for acute inhalation toxicity is greater than 0.5 mg/L but less than or equal to 2 mg/L. Materials whose LD₃₀ for acute dermal toxicity is greater than 40 mg/kg but less than or equal to 200 mg/kg. Materials whose LD₃₀ for acute oral toxicity is greater than 40 mg/kg but less than or equal to 50 mg/kg. Any liquid whose saturated vapor concentration at 20°C (68°F) is equal to or greater than one-fifth its LC₃₀ for acute inhalation toxicity, if its LC₃₀ is less than or equal to 3000 ppm and that does not meet the criteria for degree of hazard 4. Compressed liquefied gases with boiling points between -30°C (-22°F) and -30°C (-30°C) (-30°C criteria for degree of hazard 4. Compressed liquefied gases with boiling points between $-30^{\circ}\text{C}(-22^{\circ}\text{F})$ and $-55^{\circ}\text{C}(-66.5^{\circ}\text{F})$ that cause frostbite and irreversible tissue damage. Materials that are respiratory irritants. Cryogenic gases that cause frostbite and irreversible tissue damage. Materials that are corrosive to the respiratory tract. Materials that are corrosive to the eyes or cause irreversible corneal opacity. Materials that are corrosive to the skin. 4 (materials that, under emergency conditions, can be lethall: Gases and vapors whose LC₃₀ for acute inhalation toxicity less than or equal to 1,000 ppm. Dusts and mists whose LC₃₀ for acute inhalation toxicity is less than or equal to 0.5 mg/L. Materials whose LD₃₀ for acute dermal toxicity is less than or equal to 40 mg/kg. Materials whose LD₃₀ for acute oral toxicity is less than or equal to 5 mg/kg. Any liquid whose saturated vapor concentration at $20^{\circ}\text{C}(68^{\circ}\text{F})$ is equal to or greater than one-fifth its LC₃₀ is less than or equal to 1000 ppm. its LC₅₀ for acute inhalation toxicity, if its LC₅₀ is less than or equal to 1000 ppm.

PHYSICAL HAZARD: 0 (Water Reactivity: Materials that do not react with water. Organic Peroxides: Materials that are normally stable, even under fire conditions and will not react with water. Explosives: Substances that are Non-Explosive. Unstable Compressed Gases: No Rating. Pyrophoris: No Rotating. Overser: No "O" rating allowed. Unstable Reactives: Substances that will not polymerize, decompose, condense or self-react.); 1 (Water Reactivity: Materials that change or decompose upon exposure to moisture. Organic Peroxides. Materials that are normally stable, but can become unstable at high temperatures and pressures. These materials may react with water, but will not release energy. Explosives: Division 1.5 & 1.6 substances that are very insensitive explosives or that do not have a mass explosion hazard. Compressed Gases: Pressure below

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OSHA definition. *Pyrophorics*: No Rating. *Oxidizers*: Packaging Group III; <u>Solids</u>: any material that in either concentration tested, exhibits a mean burning time less than or equal to the mean burning time of a 3:7

potassium bromate/cellulose mixture and the criteria for Packing Group I and II are not met

16. OTHER INFORMATION (Continued)

DEFINITIONS OF TERMS (Continued)

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS

PHYSICAL HAZARD (continued): 1 (continued): <u>Liquids</u>: any material that exhibits a mean pressure rise time less than or equal to the pressure rise time of a 1:1 nitric acid (65%)/cellulose mixture and the criteria for Packing Group I and II are not met. *Unstable Reactives*: Substances that may decompose, condense or selfreact, but only under conditions of high temperature and/or pressure and have little or no potential to cause significant heat generation or explosive hazard. Substances that readily undergo hazardous polymerization in significant heat generation or explosive hazard. Substances that readily undergo hazardous polymerization in the absence of inhibitors.); 2 (Water Reactivity: Materials that may react violently with water. Organic Peroxides: Materials that, in themselves, are normally unstable and will readily undergo violent chemical change, but will not detonate. These materials may also react violently with water. Explosives: Division 1.4—Explosives ubstances where the explosive effect are largely confined to the package and no projection of fragments of appreciable size or range are expected. An external fire must not cause virtually instantaneous explosion of almost the entire contents of the package. Compressed Gases: Pressurized and meet OSHA definition but < 514.7 ps absolute at 21.1°C (70°F) [500 psig]. Prophorics: No Rating. Ordizers: Packing Group II Solids: any material that, either in concentration tested, exhibits a mean burning time of less than or equal to Il <u>Soilos</u>: any material that, either in concentration tested, exhibits a mean puring time or less than or equal to the mean burning time of a 2.5 potassium bromate/cellulose mixture and the criteria for backing Group I are not met. <u>Liquids</u>: any material that exhibits a mean pressure rise time less than or equal to the pressure rise of a 1.1 aqueous sodium chlorate solution (40%)/cellulose mixture and the criteria for Packing Group I are not met. <u>Unstable Reactives</u>: Substances that may polymerize, decompose, condense, or self-react at ambient temperature and/or pressure, but have a low potential for significant heat generation or explosion. Substances temperature and/or pressure, but have a low potential for significant heat generation or explosion. Substances that readily form peroxides upon exposure to air or oxygen at room temperature); 3 (Water Reactivity: Materials that may form explosive reaction, but require a strong initiating source, or must be heated under confinement before initiation; or materials that react explosively with water. Explosives: Division 1.2 – Explosive substances that have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but do not have a mass explosion hazard. Compressed Gases: Pressure ≥ 514.7 psi absolute at 21.1°C (70°F) [500 psigl.] Pyrophorics: No Rating. Oxidizers: Packing Group i Solids: any material that, in either concentration tested, exhibits a mean burning time less than the mean burning time of a 3.2 potassium bromate/cellulose mixture. Iquids: Am material that spontaneously ignites when mixed with cellulose in a 1.1 ratio, or which exhibits mean pressure rise time less than the pressure rise time of a 1.1 perchloric acid (50%)/cellulose mixture. Instable Reactives: Substances that may polymerize, decompose, condense or self-react at ambient temperature and/or pressure and have a moderate potential to cause significant heat generation or explosion.); 4 (Water Reactivity: Materials that react explosively with water without requiring heat or confinement. Organic Peroxides: Materials that are readily capable of detonation or explosive composition at normal temperature and pressures. Explosives: Division 1.1 & 1.2-explosive substances that have a mass explosion to so the that affects almost the entire load instantaneously. Compressed Gases: No Rating. Pyrophorics: Add to the definition of Flammability "4". Oxidizers: No "4" rating. Unstable Reactives: Substances that may polymerize, decompose, condense or self-react at ambient temperature and/or pressure and have a high potential to cause significant heat generation or explosion.). and have a high notential to cause significant heat g

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:

HEALTH HAZARD: 0 (materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials): Gases and vapors whose LC_{50} for acute inhalation toxicity is greater than 10,000 ppm. Dusts and mists whose LC_{50} for acute inhalation toxicity is greater than 200 mg/L. Materials bolou ppm. Dusts and mists whose Li₂₀ for acute inhalation toxicity is greater than 200 mg/kg. Materials whose LD₂₀ for acute dermal toxicity is greater than 2000 mg/kg. Materials whose LD₂₀ for acute oral toxicity is greater than 2000 mg/kg. Materials that are essentially non-irritating to the respiratory tract, eyes and skin. 1 (materials that, under emergency conditions, can cause significant irritation): Gases and vapors whose LC₂₀ for acute inhalation toxicity is greater than 5,000 ppm but less than or equal to 2000 mg/kg. Materials whose LC₃₀ for acute inhalation toxicity is greater than 10 mg/k lues than or equal to 200 mg/k. Materials whose LC₃₀ for acute dermal toxicity is greater than 1000 mg/kg but less than or equal to 2000 mg/kg. Materials whose LD₃₀ for acute oral toxicity is greater than 300 mg/kg but less than or equal to 2000 mg/kg. Materials whose LD₃₀ for acute oral toxicity is greater than 500 mg/kg. Waterials that cause slight to moderate irritation to the respiratory tract, eyes and skin. 3 (materials that, under emergency conditions, can cause serious or permanent injury): Gases and vapors whose LC₃₀ for acute inhalation toxicity is greater than 1,000 ppm but less than or equal to 3,000 ppm. Dusts and mists whose LC₂₀ for acute inhalation toxicity is greater than 0.5 mg/L but less than or equal to 2 mg/L. Materials whose LD₂₀ for acute dermal toxicity is greater than 0.5 mg/kg but less than or equal to 20 mg/kg. Materials whose LD₂₀ for acute dermal toxicity is greater than 40 mg/kg but less than or equal to 200 mg/kg. Any liquid whose saturated vapor concentration at 20°C (68°F) is equal to or greater than one-fifth mg/kg. Any liquid whose saturated vapor concentration at 20° C (68°F) is equal to or greater than one-fifth its LC₃₀ for acute inhalation toxicity, if its LC₃₀ is less than or equal to 3000 ppm and that does not meet the criteria for degree of hazard 4. Compressed liquefied gases with boiling points between -30°C (-22°F) and -55°C (-66.5°F) that cause frostbite and irreversible tissue damage. Materials that are respiratory irritants. Cryogenic gases that cause frostbite and irreversible tissue damage. Materials that are corrosive to the respiratory tract. Materials that are corrosive to the eyes or cause irreversible corneal opacity. Materials that are corrosive to the skin. 4 (materials that, under emergency conditions, can be lethal]. Gases and vapors whose LC₃₀ for acute inhalation toxicity less than or equal to 1,000 ppm. Dusts and mists whose LC₃₀ for acute inhalation toxicity is less than or equal to 0.5 mg/k. Materials whose LD₃₀ for acute of the corrosive correct corrosive correct of the corrosive correct of

Any liquid whose saturated vapor concentration at 20° C (68°F) is equal to or greater than one-fifth its LC₃₀ for acute inhalation toxicity, if its LC₃₀ is less than or equal to 1000 ppm.

FLAMMABILITY HAZARD: 0 Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand: Materials that will not burn in air when exposed to a temperature of 816° C (1500°F) for a period of 5 minutes in according with Annex D. 1 Materials that must be preheated before ignition can occur. Materials in this degree require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur. Materials that will burn in air when exposed to a temperature of 816° C (1500°F) for a period of 5 minutes in accordance with Annex D. Liquids, solids and semisolids having a flash point at or above 93.4° C (200°F) for a period of 93.6° C (200 (e.g., Class IIIB liquids). Liquids with a flash point greater than 35°C (95°F) that do not sustain combustion when tested using the Method of Testing for Sustained Combustibility, per 49 CFR 173, Appendix H or the UN Recommendation on the Transport of Dangerous Goods, Model Regulations (current edition) and the related Manual of Tests and Criteria (current edition). Liquids with a flash point greater than 35°C (95°F) in related Manual of Tests and Criteria (current edition). Liquids with a flash point greater than 35° (95°F) in a water-miscible solution or dispersion with a water non-combustible liquid/solid content of more than 85 percent by weight. Liquids that have no fire point when tested by ASTM D 92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup, up to a boiling point of the liquid or up to a temperature at which the sample being tested shows an obvious physical change. Combustible pellets with a representative diameter of greater than 2.5 mm (10 mesh). Solids containing greater than 0.5 percent by weight of a flammable or combustible solvent are rated by the closed-up flash point of the solvent. Most ordinary combustible materials. 2 Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. Materials in this degree would not under normal conditions form hazardous atmospheres with air, but under high ambient temperatures or under moderate heating could release vapor in sufficient quantities to produce hazardous atmospheres with air: Liquids having a flash point at or above 97.8°C (100°F) and below 93.4°C (200°F) (e.g., Class II and Class IIIA liquids.) Solid materials in the form of powders or coarse dusts of representative diameter between 420 microns (40 mesh) and 2 mm (10 mesh) that burn rapidly but that generally do not form explosive mixtures in air. Solid

materials in fibrous or shredded form that burn rapidly and create flash fire hazards, such as cotton, sisal e off fla d semisolids that readily give off flammable vapors.

MATERIALS IDENTIFICATION SYSTEM HAZARD RATINGS

HAZARDOUS (continued):

FLAMMABILITY HAZARD (continued): 2 (continued): Solids containing greater than 0.5 percent by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent. 3 Liquids and solids that can be ignited under almost all ambient temperature conditions. Materials in this degree soids that can be ignited under almost all ambient temperature conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures or, though unaffected by ambient temperatures, are readily ignited under almost all conditions: Liquids having a flash point ator above 22.8°C (73°F) and having a boiling point at or above 37.8°C (100°F) and those liquids having a flash point at or above 22.8°C (73°F) and below 37.8°C (100°F) and below 37.8°C (100°F) (e.g., Class IB and IC liquids). Materials that, on account of their physical form or environmental conditions, can form explosive mixtures with air and are readily dispersed in air. Flammable or combustible dusts with a representative diameter less than 420 microns (40 mesh). Materials that burn with extreme rapidity, usually by reason of self-contained owern (e.g., et a), notice the provided of the provided o contained oxygen (e.g., dry nitrocellulose and many organic peroxides). Solids containing greater than 0.5 percent by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent. 4 Materials that will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and will burn readily. Flammable gases, Flammable cryogenic materials. Any liquid or gaseous materials that is liquid while under pressure and has a flash polic below 22.8°C (73°F) and a boiling point below 37.8°C (100°F) (e.g., Class IA liquids). Materials that ignite

when exposed to air, Solids containing greater than 0.5 percent by weight of a flammable or combustible solvent are rated by the closed cup flash point of the solvent.

INSTABILITY HAZARD: O Materials that in themselves are normally stable, even under fire conditions: Materials that have an estimated instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) below 0.01 W/mL. Materials that do not exhibit an exotherm at temperatures less than or equal to 500°C (932°F) when tested by differential scanning calorimetry. 1 Materials that in themselves are normally stable, but that can become unstable at elevated temperatures and pressures: Materials that have an estimated instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 0.01 W/mL and below 10 W/mL 2 Materials that readily undergo violent chemical change at elevated temperatures and pressures: Materials that have an estimated instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 10 W/mL and below 100W/mL 3 Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction, but that require a strong initiating source or that must be heated under confinement before initiation: Materials that have an estimated instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) at or above 100 W/mL and below 1000 W/mL. Materials that are sensitive to thermal or mechanical shock at elevated temperatures and pressures. 4 Materials that in themselves are readily capable of detonation or explosive decomposition or explosive reaction at normal temperatures and pressures: Materials that have an estimated instantaneous power density (product of heat of reaction and reaction rate) at 250°C (482°F) of 1000 W/mL or greater. Materials that are sensitive to localized thermal or mechanical shock at normal temperatures and pressures

FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire Protection Association (NFPA). Flash Point Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autointion Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

TOXICOLOGICAL INFORMATION:

Human and Animal Toxicology: Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: LD_{50} - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; LC_{50} - Lethal Concentration (gases)

LD₀ - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; LC₀ - Lethal Concentration (gases) which kills 50% of the exposed animals; ppm concentration expressed in parts of material per million parts of air or water; mg/m² concentration expressed in weight of substance per volume of air; mg/liq quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of toxicity include TDLo, the lowest dose to cause a symptom; TDo, LDLo, and LDo, or TC, TCo, LCLo, and LCo, the lowest dose (or concentration) to cause lethal or toxic effects. Cancer Information: The sources are: IARC - the International Agency for Research on Cancer; NTP - the National Toxicology Program, RTECS - the Registry of Toxic Effects of Chemical Substances, OSHA and CAL/OSHA. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. Other Information: BEI - ACGIH Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.

REPRODUCTIVE TOXICITY INFORMATION:

A <u>mutagen</u> is a chemical that causes permanent changes to genetic material (DNA) such that the changes will A mutation of a children with classes permanent triangles to generation material (unique) state that changes my propagate through generational lines. An <u>embryotoxin</u> is a chemical that causes damage to a developing embryo (e.g., within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical that causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance that interferes in any way with

ECOLOGICAL INFORMATION:

EC is the effect concentration in water. BCF = Bioconcentration Factor, which is used to determine if a substance will concentrate in lifeforms which consume contaminated plant or animal matter. $\mathbf{T}_{\mathbf{m}}$ = median threshold limit; Coefficient of Oil/Water Distribution is represented by log K_{ow} or log K_{oc} and is used to assess a substance's behavior in the environment.

REGULATORY INFORMATION:

U.S. and CANADA:

ACGIH: American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.

This section explains the impact of various laws and regulations on the material. EPA is the U.S. Environmental This section explains the impact of various laws and regulations on the material. EPA is the U.S. Environmental Protection Agency, NIOSH is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (OSHA). WHINIS is the Canadian Workplace Hazardous Materials Information System. DOT and TC are the U.S. Department of Transport Safety and Transport Canada, respectively. Superfund Amendments and Reauthorization Act (SARA); the Canadian Domestic/Non-Domestic Substances List (DSL/NDSL); the U.S. Toxic Substance Control Act (TSCA); Marine Pollutant status according to the DOT; the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund); and various state regulations. This section also includes information on the precautionary warnings which appear on the material's package label. OSHA - U.S. Occupational Safety and Health Administration.

EUROPEAN and INTERNATIONAL:

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STENCIL MAGIC REMOVER

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The DFG: This is the Federal Republic of Germany's Occupation Health Agency, similar to the U.S. OSHA. EU is the European Union (formerly known as the EEC, European Economic Community). EINECS: This is the European Inventory of Now-Existing Chemical Substances. The ARD is the European Agreement Concerning the

International Carriage of Dangerous Goods by Road and the RID are the International Regulations Concerning the Carriage of Dangerous Goods by Rail. AICS is the Australian Inventory of Chemical Substances. METI is the Japanese Ministry of Economy, Trade, and Industry.

