

ARPIE TWIN TIS AFETY DATA SHEET

Sharpie Core Markers (All colors)

GHS product identifier	: Sharpie Core Markers (All colors)
Product code	: Fine, Ultra Fine, Chisel, Retractable Fine, Retractable Ultra Fine, Neon, Twin Tip, Extreme , Mini , Super , Super Twin Tip, Brush Tip
Other means of identification	: Not available.
Product type	: Liquid.

Relevant identified uses of the substance or mixture and uses advised against Not applicable.

Manufacturer	: Sanford, L.P. 6655 Peachtree Dunwoody Road Atlanta, GA 30328 1-800-346-3278
Emergency telephone number (with hours of operation)	: CHEMTREC (U.S. and Canada) 1-800-424-9300

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 4.8%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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Section 2. Hazards identification

Hazards not otherwise classified	: None known.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	%	CAS number
propan-1-ol	≥25 - ≤50	71-23-8
4-hydroxy-4-methylpentan-2-one	≥10 - ≤25	123-42-2
butan-1-ol	≥10 - ≤25	71-36-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Section 4. First aid measures

Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed
	person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/e	effects, acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
<u>Over-exposure signs/sym</u>	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following:
	pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

Page 3s.of 414

Version :1

Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

or ac nc or tig ar m	ut on appropriate personal protective equipment (see Section 8). Do not get in eyes or n skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with dequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do ot enter storage areas and confined spaces unless adequately ventilated. Keep in the riginal container or an approved alternative made from a compatible material, kept ghtly closed when not in use. Store and use away from heat, sparks, open flame or ny other ignition source. Use explosion-proof electrical (ventilating, lighting and laterial handling) equipment. Use only non-sparking tools. Take precautionary reasures against electrostatic discharges. Empty containers retain product residue
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Section 7. Handling and storage

	and can be hazardous. Do not reuse container.
Advice on general soccupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, sincluding any incompatibilities	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

ngredient name	Exposure limits
propan-1-ol	OSHA PEL 1989 (United States, 3/1989).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 625 mg/m ³ 15 minutes.
	NIOSH REL (United States, 10/2020).
	Absorbed through skin.
	TWA: 200 ppm 10 hours.
	TWA: 500 mg/m ³ 10 hours.
	STEL: 250 ppm 15 minutes.
	STEL: 625 mg/m ³ 15 minutes.
	OSHA PEL (United States, 5/2018).
	TWA: 200 ppm 8 hours.
	TWA: 500 mg/m ³ 8 hours.
	ACGIH TLV (United States, 1/2022).
	TWA: 100 ppm 8 hours.
	CAL OSHA PEL (United States, 5/2018).
	Absorbed through skin.
	STEL: 625 mg/m ³ 15 minutes.
	STEL: 250 ppm 15 minutes.
	TWA: 500 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
-hydroxy-4-methylpentan-2-one	ACGIH TLV (United States, 1/2022).
	TWA: 50 ppm 8 hours.
	TWA: 238 mg/m ³ 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 50 ppm 8 hours.
	TWA: 30 ppm o hours. TWA: 240 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2020).
	TWA: 50 ppm 10 hours.
	TWA: 30 ppm 10 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours.
	CAL OSHA PEL (United States, 5/2018).
	TWA: 240 mg/m ³ 8 hours.
	TWA: 240 mg/m² 8 hours.
outan-1-ol	ACGIH TLV (United States, 1/2022).
	TWA: 20 ppm 8 hours.

-	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin. CEIL: 50 ppm
	CEIL: 150 mg/m ³ NIOSH REL (United States, 10/2020).
	Absorbed through skin. CEIL: 50 ppm CEIL: 150 mg/m ³ OSHA PEL (United States, 5/2018).
	TWA: 100 ppm 8 hours. TWA: 300 mg/m ³ 8 hours. CAL OSHA PEL (United States, 5/2018). Absorbed through skin. C: 150 mg/m ³ C: 50 ppm
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Various
Odor	: Alcohol-like.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: No results available.
Flash point	: No results available.
Evaporation rate	: 0.14 to 1.3 (butyl acetate = 1)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.
Vapor pressure	: 0.11 to 0.17 kPa (0.8 to 1.3 mm Hg)
Relative vapor density	: Not available.
Relative density	: 0.855 to 0.867
Solubility in water	: Not available.
Miscible with water	: Yes.
Miscible with water	: Yes.
VOC	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not applicable.
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Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
propan-1-ol	LD50 Dermal	Rabbit	5040 mg/kg	-
	LD50 Oral	Rat	1870 mg/kg	-
4-hydroxy-4-methylpentan-	LD50 Dermal	Rabbit	13500 mg/kg	-
2-one			0.0	
	LD50 Oral	Rat	2520 mg/kg	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
propan-1-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Mild irritant	Human	-	47 hours 100	-
				%	
	Skin - Mild irritant	Human	-	24 hours 100	-
				%	
	Skin - Mild irritant	Rabbit	-	500 mg	-
4-hydroxy-4-methylpentan-	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
2-one				uL	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
butan-1-ol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
propan-1-ol butan-1-ol	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

Version :1

Section 11. Toxicological information

Information on the likely routes of exposure	1	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Potential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	1	Causes skin irritation.
Ingestion	:	Harmful if swallowed. Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	 Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Long term exposure **Potential immediate** : Not available. effects **Potential delayed effects** : Not available. Potential chronic health effects Not available. General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards. **Reproductive toxicity** : No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates

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Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Sharpie Core Markers (All colors)	1667.1	15858.2	N/A	N/A	N/A
propan-1-ol	1870	5040	N/A	N/A	N/A
4-hydroxy-4-methylpentan-2-one	2520	13500	N/A	N/A	N/A
butan-1-ol	790	3400	N/A	24	N/A

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
propan-1-ol	Acute EC50 4480000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 1000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 2950000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 3800000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
4-hydroxy-4-methylpentan-	Acute LC50 420 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
2-one			
butan-1-ol	Acute EC50 1983 mg/l Fresh water Acute LC50 1730000 μg/l Fresh water	Daphnia - Daphnia magna Fish - Pimephales promelas	48 hours 96 hours

Persistence and degradability

Not available.

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Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
propan-1-ol 4-hydroxy-4-methylpentan- 2-one	0.2 -0.14 to 1.03	-	low low
butan-1-ol	1	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Page 1/00/01/414 Daterolinessee/Datesof 3732104/201873-2020, 2138/144/2023-3040, 21373-45Dates7050007,21373-45Dates020, 21373-700/D 3PT 2100 VD Version :1

Section 13. Disposal considerations

Ingredient	CAS #		Reference number
1-Butanol (I)	71-36-3	Listed	U031

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Additional information DOT Classification

- : <u>Reportable quantity</u> 23320.9 lbs / 10587.7 kg [3248.5 gal / 12297 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- **Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

	-
U.S. Federal regulations	: TSCA 8(a) PAIR: 4-hydroxy-4-methylpentan-2-one; 4-tert-butylphenol; octamethylcyclotetrasiloxane
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	Clean Water Act (CWA) 307: ethylbenzene; phenol
	Clean Water Act (CWA) 311: xylene; ethylbenzene; phenol; Formaldehyde, solution
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients
Datem Nuises: 21/37/2010/09/29/373-2004/201073-2020,	2138/14/1/2023-3040, 21373-45 Date: 70-6 007:21373-68 00:21373-700 Not previous validation Version : 1 Page 1/11/014

Section 15. Regulatory information

				SARA 302 TPQ		SARA 304 RQ	
Name		%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
phenol formaldehyde		≤0.1 <0.1	Yes. Yes.	500 / 10000 500	- 73.9	1000 100	- 14.8
SARA 304 RQ	: 2870264.	1 lbs / 1303099	.9 kg [3998		13472.6 L]		•
SARA 311/312							
Classification	ACUTE TO SKIN IRRI SERIOUS SPECIFIC irritation) - SPECIFIC Category 3		Category 2 gory 2 - Category AN TOXIC	1 ITY (SINGLE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
Composition/inform	ation on ingredient	<u>IS</u>					
Name	%	CI	assificatio	n			
propan-1-ol	≥25 - ≤50 FLAMMABLE LIQUIDS - Category 2						

propan-1-ol	≥25 - ≤50	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4
		SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
4-hydroxy-4-methylpentan-2-one	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 3
		EYE IRRITATION - Category 2A
butan-1-ol	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		(Nalcolic ellects) - Calegoly 5

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	Product name	CAS number	%
Form R - Reporting requirements	butan-1-ol	71-36-3	≥10 - ≤25
Supplier notification	butan-1-ol	71-36-3	≥10 - ≤25

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	 The following components are listed: PROPYL ALCOHOL; DIACETONE ALCOHOL; N- BUTYL ALCOHOL
New York	: The following components are listed: Butyl alcohol
New Jersey	The following components are listed: PROPYL ALCOHOL; DIACETONE ALCOHOL; n- BUTYL ALCOHOL
Pennsylvania	 The following components are listed: 1-PROPANOL; 2-PENTANONE, 4-HYDROXY- 4-METHYL-; 1-BUTANOL

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Dateroloinesu extDates of 3782/06/201873-2020, 2138/364/2023/3040, 21373-45Deates 0.458706000, 21373-700/Va previous validation Version : 1 Page 1/2014

Section 15. Regulatory information

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

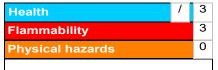
UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list		
Australia	۰.	All components are listed or exempted.
Canada		All components are listed or exempted.
China		All components are listed or exempted.
Eurasian Economic Union		Russian Federation inventory : All components are listed or exempted.
Japan		Japan inventory (CSCL): At least one component is not listed. Japan inventory (ISHL): Not determined.
New Zealand	1	All components are listed or exempted.
Philippines	1	All components are listed or exempted.
Republic of Korea	1	All components are listed or exempted.
Taiwan	1	All components are listed or exempted.
Thailand	1	Not determined.
Turkey	1	Not determined.
United States	1	Not determined.
Viet Nam	1	All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Section 16. Other information

	Classification Justification					
FLAMMABLE LIQUIDS - Ca ACUTE TOXICITY (oral) - (SKIN IRRITATION - Categor SERIOUS EYE DAMAGE - SPECIFIC TARGET ORGA irritation) - Category 3 SPECIFIC TARGET ORGA Category 3	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method					
<u>History</u>						
Date of printing	: 8/14/2023					
Date of issue/Date of revision	: 8/14/2023					
Date of previous issue	: No previous validation					
Version	: 1					
Key to abbreviations	IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coe MARPOL = International Convention for the Preventio	BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group				
References	: Not available.					

References

Indicates information that has changed from previously issued version.

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.