83978-2025 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2016 Set for #83978 - ROTRING 600 3IN1 Page 1 of 15



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name	: rOtring D1 Ballpoint Pen Inks (Black, Red, Blue)
Product code	: rOtring D1 Ballpoint Pen Inks (Black, Red, Blue)
Product description	: Not available.
Product type	: Liquid.

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

1.3 Details of the supplier of the safety data sheet

Newell Brands Ireland Services Designated Activity Company The Lennox Building, 50 Richmond Street South Dublin 2, D02 FK02 Ireland

e-mail address of person : Aftersales.SERVICE@newellco.com responsible for this SDS

Poisons Information Centre of Ireland

1.4 Emergency telephone number				
National advisory body/P	oison Center			
Telephone number	: 01 809 2166			
<u>Supplier</u>				
Telephone number	:			

SECTION 2: Hazards identification

 2.1 Classification of the substance or mixture

 Product definition
 : Mixture

 Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

 Acute Tox. 4, H302

 Skin Corr. 1B, H314

 Aquatic Acute 1, H400

 Aquatic Chronic 1, H410

 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

 Ingredients of unknown toxicity
 : 15 percent of the mixture consists of component(s) of unknown acute dermal toxicity 45 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms



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SECTION 2: Hazards identification

Signal word	1	Danger		
Hazard statements	•	Causes severe skin burns and eye damage. Harmful if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.		
Precautionary statements				
General	÷	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.		
Prevention	÷	Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing vapor.		
Response	-	Collect spillage. Immediately call a POISON CENTER or doctor. IF SWALLOWED Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Storage	1	Store locked up.		
Disposal	÷	Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Hazardous ingredients	:	[4-[p,p'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium m-[[p-anilinophenyl]azo]benzenesulphonate Amines, coco alkyl		
Supplemental label elements	÷	Not applicable.		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	-	Not applicable.		
Special packaging requirem	en	<u>ts</u>		
Containers to be fitted with child-resistant fastenings	:	Yes, applicable.		
Tactile warning of danger	:	Yes, applicable.		
2.3 Other hazards				
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		
Other hazards which do not result in classification	:	None known.		

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
2-phenoxyethanol	REACH #: 01-2119488943-21 EC: 204-589-7 CAS: 122-99-6 Index: 603-098-00-9	≥25 - ≤44	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]
2-methylpentane-2,4-diol	REACH #: 01-2119539582-35 EC: 203-489-0	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]

	CAS: 107-41-5 Index: 603-053-00-3			
[4-[p,p'-bis(dimethylamino) benzhydrylidene]cyclohexa- 2,5-dien-1-ylidene] dimethylammonium m-[[p- anilinophenyl]azo] benzenesulphonate	REACH #: 01-2119982974-17 EC: 265-449-9 CAS: 65113-55-5	≤14	Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Amines, coco alkyl	CAS: 61788-46-3 Index: 61788-46-3	≤5.7	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid me	easures
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. Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

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.

SECTION 5: Firefighting measures

and an end of the second second		
5.1 Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising f	rom	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

5.3 Advice for firefighters

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SECTION 5: Firefighting measures

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.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive 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. 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".
6.2 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and materials fo	r c	ontainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures
 Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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SECTION 7: Handling and storage

Advice on general	
occupational 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.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. 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. 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.

Seveso Directive - Reporting thresholds

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	Notification and MAPP threshold	Safety report threshold
E1	100 tonne	200 tonne

7.3 Specific end use(s) Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
2-methylpentane-2,4-diol	NAOSH (Ireland, 1/2020). OELV-15min: 25 ppm 15 minutes. OELV-15min: 125 mg/m³ 15 minutes.
procedures atmosphere of the ventil protective e the following the assess limit values atmosphere of exposure (Workplace for the mea	ct contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness ation or other control measures and/or the necessity to use respiratory quipment. Reference should be made to monitoring standards, such as g: European Standard EN 689 (Workplace atmospheres - Guidance for nent of exposure by inhalation to chemical agents for comparison with and measurement strategy) European Standard EN 14042 (Workplace s - Guide for the application and use of procedures for the assessment to chemical and biological agents) European Standard EN 482 atmospheres - General requirements for the performance of procedures surement of chemical agents) Reference to national guidance for methods for the determination of hazardous substances will also be
DNELs/DMELs	

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Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-phenoxyethanol	DNEL	Long term Inhalation	2.41 mg/m ³	General population	Local
	DNEL	Long term Inhalation	2.41 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	8.07 mg/m³	Workers	Local
	DNEL	Long term Inhalation	8.07 mg/m³	Workers	Systemic
	DNEL	Short term Oral	17.43 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	17.43 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	20.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	34.72 mg/ kg bw/day	Workers	Systemic
2-methylpentane-2,4-diol	DNEL	Long term Oral	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	14 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	25 mg/m³	General population	Local
	DNEL	Short term Inhalation	49 mg/m³	General	Local
	DNEL	Long term Inhalation	49 mg/m³	Workers	Local
	DNEL	Short term Inhalation	98 mg/m³	Workers	Local
[4-[p,p'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien- 1-ylidene]dimethylammonium m-[[p- anilinophenyl]azo]	DNEL	Long term Oral	0.42 mg/ kg bw/day	General population	Systemic
benzenesulphonate	DNEL	Long term Inhalation	1.44 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	2.08 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.48 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	4.88 mg/m ³	Workers	Systemic

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

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SECTION 8: Exposure controls/personal protection

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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. Contaminated work clothing should not be allowed out of the workplace. 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.
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.
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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physic	al and chemical properties		_
<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Not available.		
Odor	: Not available.		
Odor threshold	: Not available.		
рН	Not available.		
Melting point/freezing point	: Not available.		
Initial boiling point and boiling range	: Not available.		
Flash point	: Not available.		
Evaporation rate	: Not available.		
Flammability (solid, gas)	: Not available.		
Upper/lower flammability or explosive limits	: Not available.		
Vapor pressure	: Not available.		
Vapor density	: Not available.		
Relative density	: Not available.		
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SECTION 9: Physical	and chemical properties
Solubility(ies)	: Not available.
Partition coefficient: n-octan water	ol/ : Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Not available.
Oxidizing properties	: Not available.
9.2 Other information	
Solubility in water	: Not available.
SECTION 10: Stability	/ and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Dermal	Rat	14422 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
2-methylpentane-2,4-diol	LD50 Oral	Rat	3700 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
rOtring D1 Ballpoint Pen Inks (Black, Red, Blue) 2-phenoxyethanol 2-methylpentane-2,4-diol	2957.7 1260 3700	N/A 14422 N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
Amines, coco alkyl	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

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SECTION 11: Toxicological information

Product/ingredient name	Result	Spe	ecies	Score	Exposure	Observation
2-phenoxyethanol Eyes - Moderate irritant		Rabbi	-	-	6 mg	-
	Eyes - Severe irritant	Rabbit	t	-	24 hours 25 ug	0 -
	Skin - Mild irritant	Rabbit	t	-	24 hours 50	0 -
2-methylpentane-2,4-diol	Skin - Mild irritant	Rabbit	ł	_	mg 465 mg	
	Skin - Moderate irritant	Rabbi		-	24 hours 50	0 -
					mg	
Conclusion/Summary	: Not available.				•	÷
<u>Sensitization</u>						
Conclusion/Summary	: Not available.					
<u>lutagenicity</u>						
Conclusion/Summary	: Not available.					
Carcinogenicity						
Conclusion/Summary	: Not available.					
Reproductive toxicity						
Conclusion/Summary	: Not available.					
<u>eratogenicity</u>						
Conclusion/Summary	: Not available.					
Specific target organ toxicit	<u>y (single exposure)</u>					
Product/ingr	Categ	jory	Route of Ta		Target organs	
[4-[p,p'-bis(dimethylamino)be	nzhydrylidene]cyclohexa-	Category	3	-		espiratory tract
	nmonium m-[[p-anilinophenyl]				irı	ritation
azo]benzenesulphonate Amines, coco alkyl		Category	3	_	R	espiratory tract
			-			ritation
Specific target organ toxicit	<u>y (repeated exposure)</u>				•	
Product/ingredient name			ategory Route of exposure			Target organs
Amines, coco alkyl			2	-	-	
Aspiration hazard		·				
Product/i		Result				
Amines, coco alkyl		ASPIRATION HAZARD - Category 1				

Information on the likely routes of exposure	: Not available.
Potential acute health effect	<u>cts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
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SECTION 11: Toxicological information

Skin contact	-	Adverse symptoms may include the following: pain or irritation redness blistering may occur	
Ingestion	1	Adverse symptoms may include the following: stomach pains	
Delayed and immediate effect	ts	and also chronic effects from short and long term exposure	
<u>Short term exposure</u>			
Potential immediate effects	:	Not available.	
Potential delayed effects	:	Not available.	
<u>Long term exposure</u>			
Potential immediate effects	:	Not available.	
Potential delayed effects	1	Not available.	
Potential chronic health eff	ect	<u>S</u>	
Not available.			
Conclusion/Summary	:	Not available.	
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	
Carcinogenicity	:	No known significant effects or critical hazards.	
Mutagenicity	1	No known significant effects or critical hazards.	
Teratogenicity	1	No known significant effects or critical hazards.	
Developmental effects	1	No known significant effects or critical hazards.	
Fertility effects	:	No known significant effects or critical hazards.	

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-phenoxyethanol 2-methylpentane-2,4-diol	Acute LC50 344000 µg/l Fresh water Acute EC50 2800000 µg/l Fresh water	Fish - Pimephales promelas Crustaceans - Ceriodaphnia reticulata - Larvae	96 hours 48 hours
	Acute EC50 3200000 μg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 8000000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
Conclusion/Summary	: Not available.	·	

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-phenoxyethanol	1.107	0.3493	low
2-methylpentane-2,4-diol	0.58	-	low

12.4 Mobility in soil

 Soil/water partition
 : Not available.

 coefficient (Koc)

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SECTION 12: Ecological information

Mobility

Der

: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.

13.1 Waste treatment method	5
Product	
Methods of disposal	: 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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1760	UN1760	UN1760	UN1760
14.2 UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Amines, coco alkyl)			
14.3 Transport	8	8	8	8
hazard class(es)				
14.4 Packing group	11	11	11	11
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	tion			
ADR/RID	: The enviror sizes of ≤5 <u>Tunnel co</u>		stance mark is not requi	red when transported in

ADN		: The environmentally hazardous substance mark is not required when transpo sizes of ≤5 L or ≤5 kg.			ted in
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SECTION 14: Transport information

IMDG	:	The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 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.
14.7 Transport in bulk according to IMO instruments	:	Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorization
Annex XIV
None of the components are listed.
Substances of very high concern
None of the components are listed.
Annex XVII - Restrictions : Not applicable. on the manufacture,
placing on the market
and use of certain dangerous substances,
mixtures and articles
Other EU regulations
Industrial emissions : Not listed (integrated pollution prevention and control) -
Air
Industrial emissions : Not listed (integrated pollution prevention and control) - Water
Ozone depleting substances (1005/2009/EU)
Not listed.
Prior Informed Consent (PIC) (649/2012/EU) Not listed.
Seveso Directive
This product is controlled under the Seveso Directive.
Danger criteria
Category
E1
International regulations
Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.
Montreal Protocol
Not listed.

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SECTION 15: Regulatory information

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	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has	s changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Calculation method Calculation method Calculation method

Full text of abbreviated H statements

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SECTION 16: Other information

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4 Aquatic Acute 1	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
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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.

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