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1 Identification

- · Product identifier
- · Trade name: 1-Oleoyl-2-acetyl-sn-glycerol
- · Article number: 62600
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet

• **Manufacturer/Supplier:** Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA

 Information department: Product safety department
 Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· Classification of the substance or mixture				
H225 Highly flammable liquid and vapor.				
H302 Harmful if swallowed.				
H312 Harmful in contact with skin.				
Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.				
H319 Causes serious eye irritation.				
d labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)				

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Hazard pictogi	rams
\wedge	
<u>•</u>	
GHS02 GHS	07
011002 0110	
Signal word Da	anger
Hazard-determ Acetonitrile	ining components of labeling:
Hazard statem	onte
H225	Highly flammable liquid and vapor.
	332 Harmful if swallowed, in contact with skin or if inhaled.
H319	Causes serious eye irritation.
Precautionary	•
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
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.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international
-	regulations.
Classification	
NFPA ratings (
	ealth = 2
	re = 3
\checkmark	eactivity = 0
HMIS-ratings (scale 0 - 4)
HEALTH 2	lealth = 2
	ire = 3
	Reactivity = 0
	-
	(Contd. on page 3)

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99.0%

1.0%

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- · Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 75-05-8 Acetonitrile

RTECS: AL7700000

Other ingredients

86390-77-4 1-Oleoyl-2-acetyl-sn-glycerol

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately rinse with water.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.

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(Cor	td. from page 3)
 Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdu Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals 	st).
· PAC-1:	
75-05-8 Acetonitrile	13 ppm
· PAC-2:	
75-05-8 Acetonitrile	50 ppm
· PAC-3:	
75-05-8 Acetonitrile	150 ppm

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

Control parameters

• Components with limit values that require monitoring at the workplace:

75-05-8 Acetonitrile

PEL Long-term value: 70 mg/m³, 40 ppm

REL Long-term value: 34 mg/m³, 20 ppm

TLV Long-term value: 20 ppm

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· Additional information: The lists that were valid during the creation were used as basis.

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- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties
 General Information

· General Information	
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	Aromatic
 Structural Formula 	C23H42O5
• Molecular Weight	398.6 g/mol
 Odor threshold: 	Not determined.
· Formulation	A solution in acetonitrile

· pH-value:

· Change in condition

Melting point/Melting range:

-46 °C (-50.8 °F)

Not determined.

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Boiling point/Boiling range:	81 °C (177.8 °F)
· Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	525 °C (977 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
 Explosion limits: Lower: Upper: 	4.4 Vol % 16 Vol %
 Vapor pressure at 20 °C (68 °F): Vapor pressure at 50 °C (122 °F): 	97 hPa (72.8 mm Hg) 330 hPa (247.5 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	0.7822 g/cm³ (6.52746 lbs/gal) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Fully miscible.
· Partition coefficient (n-octanol/water)	Not determined.
 Viscosity: Dynamic at 20 °C (68 °F): Kinematic: SOLUBILITY 	0.39 mPas Not determined. DMF: 20 mg/ml; DMSO: 20 mg/ml; Ethanol: Miscible; Ethanol-PBS (1:1): 1.7 mg/ml
 Solvent content: VOC content: 	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: oxidizing agents, reducing agents
- Hazardous decomposition products: carbon dioxide, carbon monoxide, nitrogen oxides

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 on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. None of the ingredients is listed. 			relevant for classification:		
Dermal Inhalative LD50 1,111 mg/kg Inhalative LC50/4 h 11.1 mg/l 75-05-8 Acetonitrile	•	-	•		
Inhalative LC50/4 h 11.1 mg/l 75-05-8 Acetonitrile TDLO 64 ml/kg (man) Oral TDLO 2,460 mg/kg (rat) Dermal LD50 2,460 mg/kg (rabbit) Inhalative LC50/4 h 7,551 mg/m³ (rat) Inhalative LC50 7,551 mg/m³ (rat) Inhalative LC50 7,551 mg/m³/8h (rat) TCLO 160 mg/m³/4h (hmn) Irritation 100 µl/24 hr (rabbit) moderate Irritation 100 µl/24 hr (rabbit) moderate on the skin: No irritant effect: 010 µl/24 hr (rabbit) Sensitization: No sensitizing effects known. Additional toxicoigical information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Irritation Carcinogenic categories Isted. IARC (International Agercy for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed.					
75-05-8 Acetonitrile Oral TDLO 64 ml/kg (man) LD50 2,460 mg/kg (rat) Dermal LD50 980 mg/kg (rabbit) Inhalative LC50/4 h 7,551 mg/m³ (rat) LC50 7,551 mg/m³/8h (rat) 7CLO TCLO 160 mg/m³/4h (hmn) Irritation 100 µl/24 hr (rabbit) moderate 100 µl/24 hr (rabbit) moderate 100 il/24 hr (rabbit) moderate 1100 il/24 hr (rabbit) The product shows the following dangers according to internally approved calculation methods preparations: Ha					
OralTDLO64 ml/kg (man)DermalLD502,460 mg/kg (rat)DermalLD50980 mg/kg (rabbit)InhalativeLC50/4 h7,551 mg/m³ (rat)LC507,551 mg/m³/8h (rat)TCLOTCLO160 mg/m³/4h (hmn)Irritation of eyesIrritationIrritation100 µl/24 hr (rabbit) moderateIrritation100 µl/24 hr (rabbit) moderateon the skin: Noirritant effect:on the skin: No irritant effect.Sensitization: No sensitizing effects known.Additional toxicological information:The product shows the following dangers according to internally approved calculation methods preparations:Harmful IrritantCarcinogenic categoriesIARC (International Agency for Research on Cancer)None of the ingredients is listed.None of the ingredients is listed.	Inhalative	LC50/4 h	11.1 mg/l		
LD50 2,460 mg/kg (rat) LD50 980 mg/kg (rabbit) LD50 980 mg/kg (rabbit) LC50/4 h 7,551 mg/m³ (rat) LC50 7,551 mg/m³/8h (rat) TCLO 160 mg/m³/4h (hmn) Irritation of eyes Irritation 100 µl/24 hr (rabbit) moderate Irritation 100 µl/24 hr (rabbit) moderate irritation 100 µl/24 hr (rabbit) moderate • Primary irritant effect: • on the skin: No irritatin effect. • on the skin: No irritatin effect. • on the skin: No irritating effect. • on the eye: Irritating effect. • on the eye: Irritating effect. • Sensitization: No sensitizing effects known. • Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant • Carcinogenic categories • IARC (International Agency for Research on Cancer) None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.	75-05-8 Acetoni	trile			
Dermal LD50 980 mg/kg (rabbit) Inhalative LD50 7,551 mg/m³ (rat) LC50 7,551 mg/m³/8h (rat) TCLO 160 mg/m³/4h (hmn) Irritation of eyes Irritation 100 µl/24 hr (rabbit) moderate Irritation 100 µl/24 hr (rabbit) moderate 100 µl/24 hr (rabbit) moderate • Primary irritant effect: 100 µl/24 hr (rabbit) moderate • on the skin: No irritant effect. • on the eye: Irritating effect. • on the skin: No irritant effect. • on sensitizing effects known. • Additional toxicological information: • The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant • Carcinogenic categories • CARC (International Agency for Research on Cancer) None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.	Oral	TDLO	64 ml/kg (man)		
Inhalative LC50/4 h 7,551 mg/m³ (rat) LC50 7,551 mg/m³/4h (rat) TCLO 160 mg/m³/4h (hmn) Irritation of eyes Irritation 100 µl/24 hr (rabbit) moderate Irritation 100 il/24 hr (rabbit) moderate invitation 100 il/24 hr (rabbit) moderate on the skin: No irritant effect: 00 number and		LD50	2,460 mg/kg (rat)		
Irritation of eyes LC50 7,551 mg/m³/8h (rat) Irritation 160 mg/m³/4h (hmn) Irritation 100 µl/24 hr (rabbit) moderate Irritation Irritation 100 il/24 hr (rabbit) moderate Irritation Irritation 100 il/24 hr (rabbit) moderate Irritation Irritation 100 il/24 hr (rabbit) moderate on the skin: No irritant effect. • on the skin: No irritant effect. • on the eye: Irritating effect. • Sensitization: No sensitizing effects known. • Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant • Carcinogenic categories • IARC (International Agency for Research on Cancer) None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.	Dermal	LD50	980 mg/kg (rabbit)		
Irritation of eyes TCLO 160 mg/m³/4h (hmn) Irritation 100 µl/24 hr (rabbit) moderate 100 1/24 hr (rabbit) moderate Primary irritant effect: 100 1/24 hr (rabbit) moderate on the skin: No irritant effect. 100 effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. None of the ingredients is listed.	Inhalative	LC50/4 h	7,551 mg/m³ (rat)		
Irritation of eyes Irritation 100 µl/24 hr (rabbit) moderate Irritation Irritation 100 il/24 hr (rabbit) moderate • Primary irritant effect: 100 il/24 hr (rabbit) moderate • on the skin: No irritant effect. • on the eye: Irritating effect. • on the eye: Irritating effect. • Sensitization: No sensitizing effects known. • Additional toxicological information: • The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant • Carcinogenic categories • IARC (International Agency for Research on Cancer) None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.		LC50	7,551 mg/m³/8h (rat)		
Irritation moderate 100 il/24 hr (rabbit) moderate Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed.		TCLO	160 mg/m³/4h (hmn)		
Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant • Carcinogenic categories • IARC (International Agency for Research on Cancer) None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.	Irritation of eyes	Irritation			
 on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. 		Irritation			
Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed.	on the eye: Irrita Sensitization: N Additional toxic The product sho preparations: Harmful	ating effect lo sensitizi cological i	ng effects known. nformation:		
 IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients is listed. 	innan	ategories			
None of the ingredients is listed. • NTP (National Toxicology Program) None of the ingredients is listed.	Carcinogenic c	-	cy for Research on Cancer)		
None of the ingredients is listed.			None of the ingredients is listed.		
	IARC (Internatio	edients is li	(Program)		
	None of the ingre		(Frogram)		
 OSHA-Ca (Occupational Safety & Health Administration) 	IARC (Internation None of the ingre- NTP (National T	oxicology			

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

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- · Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, IMDG, IATA	UN1648	
UN proper shipping name DOT, IATA IMDG	Acetonitrile solution ACETONITRILE solution	
Transport hazard class(es)		
DOT		
Class Label	3 Flammable liquids 3	
IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
Packing group DOT, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Flammable liquids	

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 Hazard identification number (Kemler code EMS Number: Stowage Category Stowage Code 	e): 33 F-E,S-D B SW2 Clear of living quarters.
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1648 ACETONITRILE SOLUTION, 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
75-05-8 Acetonitrile	
· TSCA (Toxic Substances Control Act):	
75-05-8 Acetonitrile	ACTIVE
· Hazardous Air Pollutants	
75-05-8 Acetonitrile	
· Proposition 65	
[•] Chemicals known to cause cancer:	
None of the ingredients is listed.	
 Chemicals known to cause reproductive toxicity for females: 	
None of the ingredients is listed.	
 Chemicals known to cause reproductive toxicity for males: 	
None of the ingredients is listed.	
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· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

75-05-8 Acetonitrile

· TLV (Threshold Limit Value)

75-05-8 Acetonitrile

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

· Contact: -

· Date of preparation / last revision 05/01/2023

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 2: Flammable liquids - Category 2 Acute Toxicity - Oral 4: Acute toxicity - Category 4

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

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