

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 02/06/2021 Date of issue: 01/04/2021 Supersedes: 01/04/2021

Version: 1.1

ULM-11259-S

11011011	uuic.	02/00/2021	

	tion of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	
Product name	: CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED 100 UG/ML IN ACETONITRILE
Product code	: ULM-11259-S
1.2. Relevant identified	d uses of the substance or mixture and uses advised against
1.2.1. Relevant identified	l uses
Main use category	: Professional use
Industrial/Professional use sp	ec : For professional use only
1.2.2. Uses advised agai	nst
No additional information avail	ilable
1.3. Details of the supp	plier of the safety data sheet
Cambridge Isotope Laborator	ies, Inc.
50 Frontage Road Andover, MA 01810	
USA	
USA: 1-800-322-1174 Int: 7	
cilsales@isotope.com www	/.isotope.com
Emergency teleph	one number
Emergency numbers:	
Chemtrec: 1-800-424-9300 (
International: 1-703-741-597	
SECTION 2: Hazards i	
2.1. Classification of the	ne substance or mixture
•	Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation:gas)	
Eye Irrit. 2	H319
Full text of hazard classes and	d H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F: R11 Xn; R20/21/22 Xi; R36 Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation) H332 Eye Irrit. 2 H319

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

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2.2. Label elements	
Labeling according to Regulation (EC) N Hazard pictograms (CLP)	lo. 1272/2008 [CLP]
Signal word (CLP)	GHS02 GHS07
Hazardous ingredients	: Danger : ACETONITRILE UNLABELED
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapor H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, ventilating, lighting equipment P261 - Avoid breathing dust, gas, fume, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	GHS02 GHS07 : Danger
Hazard statements (GHS-US)	 Barger H225 - Highly flammable liquid and vapor H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, open flames, sparks 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. P264 - Wash Both hands 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 clothing, protective gloves. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell P302+P352 - If on skin: Wash with plenty of water P303+P361+P353 - 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 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove conta lenses, if present and easy to do. Continue rinsing P312 - Call a poison center or doctor if you feel unwell

P322 - Specific treatment (see supplemental first aid instruction on this label)

- P330 Rinse mouth.
- P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish.

- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

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SECTION 3: Composition/Information on ingredients

3.1. **Substances**

Not applicable 3.2.

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8 (EC-No.) 200-835-2 (EC Index-No.) 608-001-00-3 (REACH-no) 01-2119471307-38	99.987	F; R11 Xi; R36 Xn; R20/21/22
CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED	(CAS-No.) 40253-03-0 (EC Index-No.)	0.013	Xn; R22 Xi; R36/37/38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8 (EC-No.) 200-835-2 (EC Index-No.) 608-001-00-3 (REACH-no) 01-2119471307-38	99.987	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED	(CAS-No.) 40253-03-0 (EC Index-No.)	0.013	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Name	Product identifier	%	GHS-US classification
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8	99.987	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319
CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED	(CAS-No.) 40253-03-0	0.013	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of R- and H- phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Specific measures (see Hazard pictograms (CLP) on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: 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/physician.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.
4.0 In the other of any linear distance dis	

Indication of any immediate medical attention and special treatment needed 4.3.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

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5.2. Special hazards arising from the s	substance or mixture
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: Vapors may form explosive mixture with air.
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION & Assidental valesse ma	
SECTION 6: Accidental release me	
	equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
6.1.1. For non-emergency personnel	
No additional information available	
6.1.2. For emergency responders No additional information available	
6.2. Environmental precautions	
	o so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3. Methods and material for contain	
For containment	: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into
	container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well- ventilated area. Avoid breathing dust, mist or spray.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash Both hands thoroughly after handling.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.
Storage conditions	: Store at room temperature away from light and moisture.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	rsonal protection
8.1. Control parameters	
ACETONITRILE UNLABELED (75-05-8)	

ACETONITRILE UNLABELED (75-05-8)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.
USA NIOSH	NIOSH REL (TWA) (mg/m³)	34 mg/m³ Forms Cyanide in the body.
USA NIOSH	NIOSH REL (TWA) (ppm)	20 ppm Forms Cyanide in the body.
USA OSHA	OSHA PEL (TWA) (mg/m³)	70 mg/m³ The value in mg/m3 is approximate.
USA OSHA	OSHA PEL (TWA) (ppm)	40 ppm The value in mg/m3 is approximate.

8.2. Exposure controls

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



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Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is

Respiratory protection	recommended.
SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	d chemical properties
The properties listed below are for the solvent, the main comp	ponent of this mixture.
Physical state	: Liquid
Appearance	: Liquid, clear
Molecular mass	: 41.05 g/mol
Color	: Colorless
Odor	: Ether-like
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -48 °C (-54°F)
Freezing point	: No data available
Boiling point	: 81 - 82 °C (178 - 180 °F)
Flash point	: 2 °C (35.6 °F) - closed cup
Auto-ignition temperature	: 523 °C (973 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 73.18 hPa (54.89 mmHg) at 15°C (59 °F), 119.81 hPa (89.86 mmHg) at 25°C(77 °F)
Relative vapor density at 20 °C	: 1.42 - (Air = 1.0)
Relative density	: No data available
Specific gravity / density	: 0.786 g/ml
Solubility	: Water: 100 %
Log Pow	: -0.34
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 4.4 - 16 vol %

9.2. Other information

SECTION 10: Stability and reactivity
10.1. Reactivity
Vapors may form explosive mixture with air.
10.2. Chemical stability
See storage and expiration date on CoA.
10.3. Possibility of hazardous reactions
Highly flammable liquid and vapor.
10.4. Conditions to avoid
Heat. Open flame. Direct sunlight. Sparks. Extremely high or low temperatures.
10.5. Incompatible materials
Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals.
10.6. Hazardous decomposition products
May release flammable gases. Carbon oxides (CO, CO2). Nitrogen oxides.

CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED

100 UG/ML IN ACETONITRILE ULM-11259-S

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SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation:gas: Harmful if inhaled.
CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED 100 UG/ML IN ACETONITRILE
LD50 oral rat	2460 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l
LC50 inhalation rat (ppm)	7551 ppm - 8h
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	2000.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	26.800 mg/l/4h
ATE CLP (dust, mist)	26.800 mg/l/4h
ACETONITRILE UNLABELED (75-05-8)	
LD50 oral rat	2460 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l
LC50 inhalation rat (ppm)	7551 ppm - 8h
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	2000.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED (40253-03-3)
ATE CLP (oral)	500.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
	Skin – Rabbit - No skin irritation
Serious eye damage/irritation	: Causes serious eye irritation.
y 5 -	Rabbit – Eyes - Irritating to eyes
Respiratory or skin sensitization	 Did not cause sensitization on laboratory animals. Buehler Test - guinea pig - Did not cause sensitization on laboratory animals. (OECD 406 method)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: No evidence of carcinogenicity in animal studies (when indicated).
	: Animal testing did not show any effects on fertility.
Reproductive toxicity	5 , ,
Specific target organ toxicity – single exposure	: Not classified
	The substance or mixture is not classified as specific target organ toxicant.
Specific target organ toxicity – repeated	: Not classified
exposure	The substance or mixture is not classified as specific target organ toxicant.
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	Treat as cyanide poisoning. Always have on hand a cyanide first-aid kit, together with proper instructions. The onset of symptoms is generally delayed pending conversion to cyanide. Nausea, Vomiting, Diarrhea, Headache, Dizziness, Rash, Cyanosis, Excitement, Depression, Drowsiness, Impaired judgment, Lack of coordination, Stupor, Death. Lungs - Lung edema - Based on human evidence. Harmful if swallowed. Harmful in contact with skin. This informatic is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED

100 UG/ML IN ACETONITRILE ULM-11259-S

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SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - general	ogy - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.		
CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED 100 UG/ML IN ACETONITRILE			
LC50 fish 1	1640 mg/l Pimephales promelas (fathead minnow) - 96h		
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h		
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d		
ACETONITRILE UNLABELED (75-05-8)			
LC50 fish 1	1640 mg/l Pimephales promelas (fathead minnow) - 96h		
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h		
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d		
12.2. Persistence and degradability			
	96% CP) UNLABELED 100 UG/ML IN ACETONITRILE		
Persistence and degradability	Biodegradability Result: - Readily biodegradable.		
,			
ACETONITRILE UNLABELED (75-05-8) Persistence and degradability	Biodegradability Result: - Readily biodegradable.		
12.3. Bioaccumulative potential			
•	06% CP) UNLABELED 100 UG/ML IN ACETONITRILE		
Log Pow Biogeoumulative notantial	-0.34		
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).		
ACETONITRILE UNLABELED (75-05-8)			
Log Pow	-0.34		
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).		
12.4. Mobility in soil			
-	96% CP) UNLABELED 100 UG/ML IN ACETONITRILE		
Ecology - soil	Not expected to absorb on soil.		
ACETONITRILE UNLABELED (75-05-8)			
Ecology - soil	Not expected to absorb on soil.		
12.5. Results of PBT and vPvB assessmen	it		
No additional information available			
12.6. Other adverse effects			
Other adverse effects	: Avoid release to the environment. Disposal must be done according to official regulations. May		
	cause long lasting harmful effects to aquatic life.		
SECTION 12: Disposal consideration			
SECTION 13: Disposal consideration			
13.1. Waste treatment methods	. Weste materiale should be disposed of under any differe which must Federal. Otate and lead		
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.		
Product/Packaging disposal recommendations	: Dispose of contents/container to Comply with applicable regulations.		
Additional information	: Handle empty containers with care because residual vapors are flammable.		
Ecology - waste materials	: Dispose of as unused product.		
	· · · · · · · · · · · · · · · · · · ·		
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG / IATA / AD	N		
14.1. UN number			
UN-No.(DOT)	: 1648		
DOT NA no.	UN1648		
14.2. UN proper shipping name			
Proper Shipping Name (DOT)	: Acetonitrile		
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120		

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Hazard labels (DOT) I: 3 Flammable liquid Packing group (DOT) III. Medium Dangar DOT Special Frovisions (40 CFR 172:10) III. Medium Changer DOT Special Frovisions (40 CFR 172:10) III. Medium Changer DOT Special Frovisions (40 CFR 172:10) III. Medium Changer DOT Special Frovisions (40 CFR 172:10) III. Medium Changer DOT Packaging Exceptions (40 CFR 173:xxx) III. Special Control (1) III. III. III. III. III. III. III. II	26, 2012 / Rules and Regulations	
Packing group (DOT) : II - Medium Danger DOT Spocial Provisions (49 CFR 172.102) : IB - Authorized Requirement: Only liquids with a vapor pressure last har or equal to 110 RAF at 80 C (11 bar 17 at 22E), or 130 RAF at 85 C (13 bar 41 S) (15 mark to expect the degree of filling determined by the following: (Image) Where: It is the maximum mean back temporature during desaport. If if the maximum mean back temporature during of the liquid baryon (IIII) of the mask per unit volume) of the liquid at 15 C DOT Packaging Exceptions (49 CFR 173.xxx) : 10 DOT Packaging Buk (49 CFR 173.xxx) : 202 Dot and transport : 33 Glass (ADR) : 33 Liass (ADR) : 34 Liass (ADR)	Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT) I. I. Medium Danger DOT Spocial Provisions (49 CFR 172.102) II. B. Authorizent IGC: Meth. (31A. 31B and 31N); Rijd plastics (31H1 and 31H2); Composite (31H21). Additional Requirement: Only liquids with a vapor pressure last han or equal to 110 RA at 80 C (11 bar at 12 E); n of 19 Add 12 at 85 C (11 bar at 13 F) are authorized. (11 Hard) at 80 C (11 bar at 12 E); n of 19 Add 12 at 85 C (11 bar at 13 F) F) are authorized. (11 Hard) at 80 C (11 bar at 12 E); n of 19 Add 12 at 85 C (11 bar at 13 F) F) are authorized. (11 Hard) at 90 C (11 bar at 12 E); n of 19 Add 12 C (11 Hard) at 90 C (11 bar at 12 E); n of 19 Add 12 C (11 Hard) at 90 C (11 Bar at 12 E); n of 19 Add 12 C (11 Hard) at 90 C (11 Bar at 13 F) F). DOT Packaging Exceptions (49 CFR 173.xxx) I 10 DOT Packaging Biak (49 CFR 173.xxx) I 202 DOT Packaging Biak (49 CFR 173.xxx) I 202 DOT Packaging Buik (49 CFR 173.xxx) I 202 Dot Saccaging Buik (40 CFR 173.xxx) I 202		
Packing group (DOT) I. I. Medium Danger DOT Spocial Provisions (49 CFR 172.102) II. B. Authorizent IGC: Meth. (31A. 31B and 31N); Rijd plastics (31H1 and 31H2); Composite (31H21). Additional Requirement: Only liquids with a vapor pressure last han or equal to 110 RA at 80 C (11 bar at 12 E); n of 19 Add 12 at 85 C (11 bar at 13 F) are authorized. (11 Hard) at 80 C (11 bar at 12 E); n of 19 Add 12 at 85 C (11 bar at 13 F) F) are authorized. (11 Hard) at 80 C (11 bar at 12 E); n of 19 Add 12 at 85 C (11 bar at 13 F) F) are authorized. (11 Hard) at 90 C (11 bar at 12 E); n of 19 Add 12 C (11 Hard) at 90 C (11 bar at 12 E); n of 19 Add 12 C (11 Hard) at 90 C (11 Bar at 12 E); n of 19 Add 12 C (11 Hard) at 90 C (11 Bar at 13 F) F). DOT Packaging Exceptions (49 CFR 173.xxx) I 10 DOT Packaging Biak (49 CFR 173.xxx) I 202 DOT Packaging Biak (49 CFR 173.xxx) I 202 DOT Packaging Buik (49 CFR 173.xxx) I 202 Dot Saccaging Buik (40 CFR 173.xxx) I 202		
DOT Special Provisions (49 CFR 172:102) : B2 - Authorized IBCs: Metal (214, 318 and 31N), Rigit plastics (2114 and 31H2); Composets (31141), Additional Requirement: Only liquids with a wopp pressure less than or equal to 110 KP at 55 C (1.1 bar at 122 F), or 130 KP at 55 C (1.1 bar at 131 F) are authorized. TT - 172 Z74(2(13)) TP2 - a. The maximum degree of Illing must not acceed the degree of Illing determined by the toolwing. (image) Where: it is far anximum mean built temperature during transport. If is to calcial expansion of the liquid between the mean temperature of the liquid during filling (0) and the maximum mean built temperature during transport. If is to calcial expansion of the liquid barbane has mean temperature of the liquid at 15 C (59 F) and 50 C (122 F), respectively. DOT Packaging Exceptions (49 CFR 173.xxx) : 202 DOT Packaging Buk (40 CFR 173.xxx) : 202 DOT Packaging Duk (40 CFR 173.xxx) : 303 Classification code (ADR) : I Lasad identinanumber (kerner Nc.) : 3 - Fia		FLAMMABLE LIQUID
DOT Special Provisions (49 CFR 172:102) : B2 - Authorized IBCs: Metal (214, 318 and 31N), Rigit plastics (2114 and 31H2); Composets (31141), Additional Requirement: Only liquids with a wopp pressure less than or equal to 110 KP at 55 C (1.1 bar at 122 F), or 130 KP at 55 C (1.1 bar at 131 F) are authorized. TT - 172 Z74(2(13)) TP2 - a. The maximum degree of Illing must not acceed the degree of Illing determined by the toolwing. (image) Where: it is far anximum mean built temperature during transport. If is to calcial expansion of the liquid between the mean temperature of the liquid during filling (0) and the maximum mean built temperature during transport. If is to calcial expansion of the liquid barbane has mean temperature of the liquid at 15 C (59 F) and 50 C (122 F), respectively. DOT Packaging Exceptions (49 CFR 173.xxx) : 202 DOT Packaging Buk (40 CFR 173.xxx) : 202 DOT Packaging Duk (40 CFR 173.xxx) : 303 Classification code (ADR) : I Lasad identinanumber (kerner Nc.) : 3 - Fia		3
DOT Special Provisions (49 CFR 172:102) : I82 - Authorized IBCs: Metal [214, 318 and 31N; Right plastics (3111 and 31H2); Component (31121), Additional Requirement: Only Radia With any appr pressure less than or equal to 110 bP at 50 C (1.1 bar at 122 F) or 130 kP at 55 C (1.3 bar at 131 F) are authorized. TT - 172 Z75 (4)(3) TP2 - a. Tha maximum degree of Illing must not acceed the degree of Illing dutarmined by the foxing (inling V) Where: It is the maximum mean torquate to 110 bP at 50 C (1.2 bar at 132 F) or 130 kP at 55 C (1.3 bar at 131 F) are authorized. TT - 172 Z75 (4)(3) TP2 - a. Tha maximum degree of Illing must not acceed the degree of Illing dutarmined by the foxing (inling V) Where: It is fan divariant on the second the degree of Illing dutarmined by the foxing (inling V) where: It is fan divariant on the second the degree of Illing dutarmined by the foxing (inling V) where: It is fan divariant on the second the degree of Illing dutarmined by the foxing in the second the degree of Illing dutarmined by the foxing (Illing V) and the maximum mean torquate to 10 the indigence class. b. For Vieudia the second the degree of Illing dutarmined by the foxing (Illing V) and the second the degree of Illing dutarmined by the foxing (Illing V) and the second the degree of Illing dutarmined by the foxing (Illing V) and the second the degree of Illing dutarmined by the foxing (Illing V) and the second the degree of Illing dutarmined by the foxing (Illing V) and the second the degree of Illing dutarmined by the foxing (Illing V) and the second the degree of Illing dutarmined by the foxing (Illing V) and the second the degree of Illing dutarmined by the foxing (Illing V) and the second the degree of Illing dutarmined the second the d	Packing group (DOT)	: II - Medium Danger
kPa at 50 C (1: bar at 122; j, or 130 kPa at 55 C (1: 3 bar at 131 P) are authorized: 17.4 178,274 (192) Normal		-
temperature in degrees celsus of the liquid during filing, and is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filing (t) and the maximum mean bulk temperature during timis portation (t) both in degrees celsus. b. For liquids transported under ambient conditions may be calculated using the formula: (mage) of Where. d15 and d00 are the densities (n units of mass per unit volume) of the liquid at 15 C (35 P) and 50 C (32 F), respectively. DOT Packaging Exceptions (49 CFR 173.xxx) 2 150 DOT Packaging Non Bulk (49 CFR 173.xxx) 2 202 DOT Packaging Buk (49 CFR 173.xxx) 2 302 Dot (4000) 1 I Class (ADR) 2 I I Liassification code (ADR) 1 DE Limited quantities (ADR) 1 DE Limited quantities (ADR) 1 DE Limited quantities		kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx) : 150 DOT Packaging Non Buk (49 CFR 173.xxx) : 242 14.3. Additional information Cther information : No supplementary information available. Overland transport Packing group (ADR) : I Class (ADR) : 3 - Flammable liquid Hazard identification number (Kemler No.) : 33 Class (ADR) : 5 - Flammable liquid Hazard labels (ADR) : 3 - Flammable liquid Hazard labels (ADR) : 3 - Flammable liquid Hazard labels (ADR) : 3 - Flammable liquid Hazard labels (ADR) : 5 - Flammable liquid Hazard labels (ADR) : 1 - Flammable liquid Hazard labels (ADR) : 2 - Flammable liquid Tunnel restriction code (ADR) : 2 - Flammable liquid Hazard labels (ADR) : 2 - Flammable liquid Hazard solution (ADR) : 2 - Flammable liquid Hazard labels (ADR) : 2 - Flammable liquid Tunnel restriction code (ADR) : 2 - Flammable liquid Hazard solution (ADR) : 2 - Flammable liq		temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242 14.3. Additional information Other information Coverland transport Packing group (ADR) I Coverland transport Hazard leafel (ADR) I Corange plates Drie Interlect (ADR) I Drie Interlect (ADR) I Drie Interlect (ADR) I Drie I	DOT Packaging Exceptions (40 CEP 173 yyy)	
DOT Packaging Buk (49 CFR 173.xxx) : 242 14.3. Additional information Other Information : No supplementary information available. Overland transport		
14.3. Additional information Cher information : No supplementary information available. Overland transport Packing group (ADR) : II Class (ADN) : 3 - Flammable liquid Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1 Hazard labels (ADR) : 3 - Flammable liquids Image: plates : 33 Corange plates : 33 Tunnel restriction code (ADR) : D/E Limited quantities (ADR) : 1/ EAC : 2YE Excepted quantities (ADR) : 1/ EAC : 2YE Excepted quantities (ADR) : 1/ EAC : 2YE Excepted quantities (ADR) : 1/ DOT Vessel Stowage Location : B - (i) The material may be stowed 'on deck'' or "under deck' on a cargo vessel and on a passenger vessel carrying a number of passengers indiced in paragraph (k)(2)(i) of this on passenger vessel carrying a number of passenger vessel length; and (ii) 'On deck orly' on passenger vessel carrying a number of passengers indiced in paragraph (k)(2)(i) of this on passenger vessel carrying a number of passenger specified in paragraph (k)(2)(i) of this carciton is carected. DOT Vessel Stowage Other : 127 Air transport		
Other information i No supplementary information available. Overland transport iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	DOT Packaging Bulk (49 CFR 173.XXX)	. 242
Other information i No supplementary information available. Overland transport i I Packing group (ADR) i II Class (ADR) i 3 - Flammable liquid Hazard identification number (Kemler No.) i 3 - Flammable liquid Hazard identification number (Kemler No.) i 3 - Flammable liquids Lassification code (ADR) i 3 - Flammable liquids Orange plates i 33 Tunnel restriction code (ADR) i D/E Limited quantities (ADR) i D/E Dif Vessel Stowage Location i B - (i) The material may be stowed 'on deck' or 'under deck' on a cargo vessel and on a passenger vessel arrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger vessel arch 3 m of overall vessel length, and (ii) 'On deck on y'' on passenger vessels in which the number of passengers limited to not more than the larger of 25 passenger vessels in which the number of passengers limited to not more than the larger of 25 passengrer vesselsenger subsenger vessels in thich the number	14.2 Additional information	
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Packing group (ADR): IClass (ADR): 3 - Flammable liquidHazard identification number (Kemler No.): 33Classification code (ADR): F - IHazard labels (ADR): 3 - Flammable liquidsOrange plates: 33Tunnel restriction code (ADR): D/ELimited quantities (ADR): D/ELimited quantities (ADR): D/ELimited quantities (ADR): D/EDrange plates: - 2YEFace code (ADR): D/ELimited quantities (ADR): D/ELimited quantities (ADR): E2Transport by sea DOT Vessel Stowage Location: B - (I) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (II) "On deck only" on passengers, or one passenger per each 3 m of overall vessel length; and (II) "On deck only" on passengers, or one passenger per each 3 m of overall vessel length; and (II) "On deck only" on passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25 passenger vessels limited to not more than the larger of 25<		
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Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1 Hazard labels (ADR) : 3 - Flammable liquids Orange plates : 33 Tunnel restriction code (ADR) : D/E Limited quantities (ADR) : D/E Limited quantities (ADR) : D/E Excepted quantities (ADR) : 2YE Excepted quantities (ADR) : 2YE DOT Vessel Stowage Location : B - (I) The material may be stowed 'on deck' on 'under deck'' on a cargo vessel and on a pasenger vessel carrying a number of passengers limited to not more than the larger of 25 passenger vessel carrying a number of passengers limited to not more than the larger of 25 passenger vessel in which the number of passengers limited to not more than the larger of 25 passenger vessel carrying a number of passengers limited to not more than the larger of 25 passenger vessel carrying a number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. DOT Vessel Stowage Other : 40 - Stow ''clear of living quarters'' MFAG-No : 127 Air transport DOT Quantity Limitations Passenger aircraft/rail transport DOT Quantity Limitations Cargo aircraft not livie (40 L) : 60 L		
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Hazard labels (ADR) : 3 - Flammable liquids Orange plates : 33 1648 Tunnel restriction code (ADR) : 0/E Limited quantities (ADR) : 0/E Limited quantities (ADR) : 0/E Excepted quantities (ADR) : 2YE Excepted quantities (ADR) : 2YE Dot Vessel Stowage Location : E2 Dot Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers ro ene passenger per each 3 m of verial vessel length; and (i) "On deck only" on passenger vessels in which the number of passengers length; and (i) "On deck only" on passenger vessels in which the number of verial vessel length; and (i) "On deck only" on passenger vessels in which the number of passengers per each 3 m of verial vessel length; and (i) "On deck only" on passenger vessels in which the number of passengers is excluded. DOT Vessel Stowage Other : 40 - Stow "clear of living quarters" MFAG-No : 127 Air transport : 5L DOT Quantity Limitations Cargo aircraft only (s) i : 60 L		
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33 1648 Tunnel restriction code (ADR) : D/E Limited quantities (ADR) 1 EAC : •2YE Excepted quantities (ADR) : E2 Transport by sea DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessel in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. DOT Vessel Stowage Other : 40 - Stow "clear of living quarters" MFAG-No : 127 Air transport DOT Quantity Limitations Passenger aircraft/rail : 5L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 60 L CFR 175.75) : 60 L		
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Limited quantities (ADR)1EAC• •2YEExcepted quantities (ADR)• E2Transport by sea• B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.DOT Vessel Stowage Other• 40 - Stow "clear of living quarters"MFAG-No• 127Air transport (49 CFR 173.27)• 5LDOT Quantity Limitations Passenger aircraft/rall• 5LDOT Quantity Limitations Cargo aircraft only (49• 60 L	Tunnel restriction code (ADR)	: D/E
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Excepted quantities (ADR): E2Transport by sea DOT Vessel Stowage LocationB - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.DOT Vessel Stowage Other MFAG-No: 40 - Stow "clear of living quarters" : 127Air transport DOT Quantity Limitations Passenger aircraft/rall (49 CFR 173.27): 5L : 5L : 5L : 5LDOT Quantity Limitations Cargo aircraft only (49 ; 60 L CFR 175.75): 60 L		
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DOT Vessel Stowage Location: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.DOT Vessel Stowage Other: 40 - Stow "clear of living quarters" t 127Air transport: 127DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 5LDOT Quantity Limitations Cargo aircraft only (49 ; CFR 175.75): 60 L		
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MFAG-No : 127 Air transport	DOT Vessel Stowage Location	passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph $(k)(2)(i)$ of this
MFAG-No : 127 Air transport	DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
DOT Quantity Limitations Passenger aircraft/rail : 5L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 60 L CFR 175.75)	-	
DOT Quantity Limitations Passenger aircraft/rail : 5L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 60 L CFR 175.75)	Air transport	
DOT Quantity Limitations Cargo aircraft only (49 : 60 L CFR 175.75)	DOT Quantity Limitations Passenger aircraft/rail	: 5L
,	DOT Quantity Limitations Cargo aircraft only (49	: 60 L
	Civil Aeronautics Law	: Flammable liquids

Safety Data Sheet

Environmental hazards

Special precautions for user

14.4.

14.5.

Other information

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

: No supplementary information available.

44.C Trememont in bully concerding to Approx	II of MARDOL 72/70 and the IRC Code		
14.6. Transport in bulk according to Annex	II of MARPOL 73/18 and the IBC Code		
Not applicable			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
CHRYSANTHEMUM DICARBOXYLIC ACID (96	% CP) UNLABELED 100 UG/ML IN ACETONITRILE		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of United States SARA Section 302		
RA Section 311/312 Hazard Classes Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting Subject to reporting requirements of United States SARA Section 313			
ACETONITRILE UNLABELED (75-05-8)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of United States SARA Section 302		
SARA Section 311/312 Hazard Classes Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting Subject to reporting requirements of United States SARA Section 313			
CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED (40253-03-3)			
SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313.			
15.2. International regulations			

CANADA

CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED 100 UG/ML IN ACETONITRILE

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED 100 UG/ML IN ACETONITRILE()
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
ACETONITRILE UNI ABELED (75-05-8)	·

ACETONITRILE UNLABEL	ED (75-05-8)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED (40253-03-3)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	· · · ·
U U		Female	Male	
No	No	No	No	

CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED

100 UG/ML IN ACETONITRILE ULM-11259-S

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ACETONITRILE UNLABELED (75-05-8)

State or local regulations

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

CHRYSANTHEMUM DICARBOXYLIC ACID (96% CP) UNLABELED (40253-03-3)

State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

· · · · ·	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R36	Irritating to eyes
R36/37/38	Irritating to eyes, respiratory system and skin
F	Highly flammable
Xi	Irritant
Xn	Harmful

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	

Health	:	2 Moderate Hazard - Temporary or minor injury may occur
Flammability	:	3 Serious Hazard
Physical	:	0 Minimal Hazard

CIL Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product