

Printing date 06/22/2021 Reviewed on 06/22/2021

### 1 Identification

· Product identifier

· Trade name: <u>RC-5</u> · Article number: RC-5

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Chemical Consultants Inc. 1850 Wild Turkey Circle Corona, CA 92878

USA +1 (951) 735-5511 ncollins@ccidom.com

- · Information department: Product safety department
- · Emergency telephone number: INFOTRAC 1-800-535-5053

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



#### GHS08 Health hazard

Muta. 1BH340May cause genetic defects.Carc. 1BH350May cause cancer.Repr. 1BH360May damage fertility or the unborn child.STOT RE 1H372Causes damage to the central nervous system through prolonged or repeated exposure.Asp. Tox. 1H304May be fatal if swallowed and enters airways.



# GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02 GHS07

GHS08

· Signal word Danger

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#### · Hazard-determining components of labeling:

Solvent naphtha (petroleum), light arom.

*N-methyl-2-pyrrolidone* 1-methoxy-2-propanol

citrus terpene

#### · Hazard statements

H226 Flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eve irritation. H317 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause cancer.

H360 May damage fertility or the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

· Precautionary statements P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. P260 Do not breathe 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.

P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

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 contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a poison center/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell. P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.* P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · Other hazards

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

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· vPvB: Not applicable.

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### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous	· Dangerous components:		
1	1-methoxy-2-propanol	20-40%	
1	Dipropylene glycol monomethyl ether	10-20%	
1	Solvent naphtha (petroleum), light arom.	10-20%	
	1,2,4-trimethylbenzene (contaminant)	10-20%	
	N-methyl-2-pyrrolidone	1-10%	
	Stoddard solvent	1-10%	
	citrus terpene	1-5%	
1	mesitylene (contaminant)	<3%	
98-82-8	cumene (contaminant)	<1%	

## 4 First-aid measures

- · Description of first aid measures
- · General information:

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; consult doctor in case of complaints.

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

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult 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, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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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### · Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

For large spills: 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, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

#### · 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

<i>PAC-1:</i>		
	1-methoxy-2-propanol	100 ppm
	Dipropylene glycol monomethyl ether	150 ppm
95-63-6	1,2,4-trimethylbenzene (contaminant)	140 ppm
872-50-4	N-methyl-2-pyrrolidone	30 ppm
108-67-8	mesitylene (contaminant)	140 ppn
1330-20-7	xylene (contaminant)	130 ppn
25340-17-4	diethylbenzene (contaminant)	10 ррт
98-82-8	cumene (contaminant)	50 ppm
<i>PAC-2:</i>		•
107-98-2	1-methoxy-2-propanol	160 ppm
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppn
95-63-6	1,2,4-trimethylbenzene (contaminant)	360 ppm
872-50-4	N-methyl-2-pyrrolidone	32 ppm
108-67-8	mesitylene (contaminant)	360 ppm
1330-20-7	xylene (contaminant)	920* ppm
25340-17-4	diethylbenzene (contaminant)	100 ppm
98-82-8	cumene (contaminant)	300 ppm
<i>PAC-3:</i>		<u>'</u>
107-98-2	1-methoxy-2-propanol	660 ppm
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppn
95-63-6	1,2,4-trimethylbenzene (contaminant)	480 ppm
872-50-4	N-methyl-2-pyrrolidone	190 ppm
108-67-8	mesitylene (contaminant)	480 ppm
1330-20-7	xylene (contaminant)	2500* ppm
25340-17-4	diethylbenzene (contaminant)	500 ppm
98-82-8	cumene (contaminant)	730 ppm

# 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

· 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 item 7.
- · Control parameters

	onents with limit values that require monitoring at the workplace: 8-2 1-methoxy-2-propanol
REL	Short-term value: 540 mg/m³, 150 ppm
	Long-term value: 360 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 369 mg/m³, 100 ppm
	Long-term value: 184 mg/m³, 50 ppm
34590	-94-8 Dipropylene glycol monomethyl ether
PEL	Long-term value: 600 mg/m³, 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm
	Long-term value: 600 mg/m³, 100 ppm
	Skin
TLV	Short-term value: 909 mg/m³, 150 ppm
	Long-term value: 606 mg/m³, 100 ppm
	Skin
<i>95-63</i> ·	-6 1,2,4-trimethylbenzene (contaminant)
REL	Long-term value: 125 mg/m³, 25 ppm
TLV	Long-term value: 123 mg/m³, 25 ppm
872-5	0-4 N-methyl-2-pyrrolidone
WEEL	Long-term value: 10 ppm
	Skin
8052-	41-3 Stoddard solvent
PEL	Long-term value: 2900 mg/m³, 500 ppm
REL	Long-term value: 350 ppm
	Ceiling limit value: 1800* mg/m³
	*15-min



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#### 108-67-8 mesitylene (contaminant)

REL Long-term value: 125 mg/m³, 25 ppm TLV Long-term value: 123 mg/m³, 25 ppm

### · Ingredients with biological limit values:

#### 872-50-4 N-methyl-2-pyrrolidone

BEI 100 mg/L

Medium: urine Time: end of shift

Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

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

Store protective clothing separately.

Avoid contact with the eyes and skin.

### · Breathing equipment:

Personal protective equipment should be selected based on an assessment of risk of exposure as uses and conditions of use vary and there is no single PPE scenario that fits all. There are chemicals in the blend that evaporate into the air and under conditions of large use volumes in combination with limited ventilation, respiratory protection may be warranted. Conditions where the worker uses the product in small amounts with local exhaust ventilation, protective gloves and eye protection may be sufficient to control exposure

· 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



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Physical and chemical proper	rties
· Information on basic physical and	chemical properties
General Information	p. op o
Appearance:	
Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 149 °C (> 300.2 °F)
Flash point:	43 °C (109.4 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	230 °C (446 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	20.0 Vol %
Vapor pressure at 20 °C (68 °F):	12 hPa (9 mm Hg)
Density at 20 °C (68 °F):	0.905 g/cm³ (7.55223 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC content:	690.0 g/l / 5.76 lb/gl
Other information	No further relevant information available.

# 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- $\cdot \textit{Thermal decomposition / conditions to be avoided: } \textit{No decomposition if used according to specifications.} \\$
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.

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- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:			
64742-95-	64742-95-6 Solvent naphtha (petroleum), light arom.			
Oral	LD50	>6800 mg/kg (rat)		
Dermal	LD50	>3400 mg/kg (rab)		
Inhalative	LC50/4 h	>10.2 mg/l (rat)		
95-63-6 1,.	95-63-6 1,2,4-trimethylbenzene (contaminant)			
Oral	LD50	5000 mg/kg (rat)		
872-50-4 N	872-50-4 N-methyl-2-pyrrolidone			
Oral LD50 3914 mg/kg (rat)		3914 mg/kg (rat)		
Dermal	LD50	8000 mg/kg (rabbit)		

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
1330-20-7	xylene (contaminant)	3
98-82-8	cumene (contaminant)	2 <i>B</i>
· NTP (Natio	onal Toxicology Program)	
98-82-8 си	mene (contaminant)	R
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of the	e ingredients is listed.	

# 12 Ecological information

- · 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · 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:

Dispose of content and/or container in accordance with local, regional, national and/or international regulations.

- · Uncleaned packagings:
- · Recommendation:

Dispose of content and/or container in accordance with local, regional, national and/or international regulations

7737 37	
UN-Number IMDG, IATA	UN1993
*	0111775
UN proper shipping name IMDG	FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPAN
IMDG	Solvent naphtha (petroleum), light arom.), MARINE POLLUTA
IATA	FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPAN)
	Solvent naphtha (petroleum), light arom.)
Transport hazard class(es)	
IMDG	
<b>*</b>	
Class	3 Flammable liquids
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Yes
	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids



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· Hazard identification number (Kemler code)	: 30
· EMS Number:	<i>F-E,<u>S-E</u></i>
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (1-METHOXY
<u> </u>	PROPANOL, SOLVENT NAPHTHA (PETROLEUM), LIGH
	AROM.), 3, III

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

· Sara			
· Section 35:	5 (extremely hazardous substances):		
None of the	None of the ingredients is listed.		
· Section 31.	· Section 313 (Specific toxic chemical listings):		
95-63-6	95-63-6 1,2,4-trimethylbenzene (contaminant)		
872-50-4	N-methyl-2-pyrrolidone		

- 1330-20-7 xylene (contaminant)
  - 98-82-8 cumene (contaminant)
- · TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

- · Hazardous Air Pollutants
- 1330-20-7 xylene (contaminant) 98-82-8 cumene (contaminant)
- · Proposition 65
- · Chemicals known to cause cancer:

This product contains a chemical known to the state of California to cause cancer

98-82-8 cumene (contaminant)

· 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.

· Chemicals known to cause developmental toxicity:

872-50-4 N-methyl-2-pyrrolidone

· New Jersey Special Hazardous Substance List:

107-98-2	1-methoxy-2-propanol	F3
872-50-4	N-methyl-2-pyrrolidone	TE, F2
1330-20-7	xylene (contaminant)	F3

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98-82-8	cumene (contaminant)	F3, F
Pennsylvan	ia Right-to-Know List:	
107-98-2	1-methoxy-2-propanol	
34590-94-8	Dipropylene glycol monomethyl ether	
95-63-6	1,2,4-trimethylbenzene (contaminant)	
872-50-4	N-methyl-2-pyrrolidone	
1330-20-7	xylene (contaminant)	
98-82-8	cumene (contaminant)	
Pennsylvan	ia Special Hazardous Substance List:	
95-63-6	1,2,4-trimethylbenzene (contaminant)	
1330-20-7	xylene (contaminant)	
98-82-8	cumene (contaminant)	
Carcinogen	ic categories	
EPA (Envir	conmental Protection Agency)	
95-63-6	1,2,4-trimethylbenzene (contaminant)	II
108-67-8	mesitylene (contaminant)	II
1330-20-7	xylene (contaminant)	I
98-82-8	cumene (contaminant)	D, CB
TLV (Thres	chold Limit Value)	
1330-20-7	xylene (contaminant)	A
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of the	ingredients is listed.	

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Solvent naphtha (petroleum), light arom.

N-methyl-2-pyrrolidone

1-methoxy-2-propanol

citrus terpene

· Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

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(Contd. of page 11) · Precautionary statements Obtain special instructions before use. P201 P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash thoroughly after handling. Do not eat, drink or smoke when using this product. P270 P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 If swallowed: Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P331 Do NOT induce vomiting. 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 contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P312 Call a poison center/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell. P362+P364 Take off contaminated clothing and wash it before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P370+P378 *In case of fire: Use for extinction: CO2, powder or water spray.* P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Dispose of contents/container in accordance with local/regional/national/international P501

regulations.

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

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact: Mr. Collins
- · Date of preparation / last revision 06/22/2021 / -
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

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)

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

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OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1 Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1B: Carcinogenicity – Category 1B

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard - Category 1

US ·