

**CORRTREAT 15190**

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**SECTION 1. IDENTIFICATION**

<b>Identification of the company:</b>	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704-331-7000
	<b>Information of the substance/preparation:</b> BU Oil & Mining Services Product Stewardship +1-704-331-7710
	<b>Emergency tel. number:</b> +1 800-424-9300(CHEMTREC)

**Trade name:** CORRTREAT 15190  
**Material number:** 302778

**Primary product use:** Industrial use  
**Chemical family:** Corrosion Inhibitor

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Flammable liquids : Category 2

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 3

Acute toxicity (Dermal) : Category 3

Skin corrosion : Category 1B

Serious eye damage : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity : Category 1 (Eyes, Central nervous system)  
- single exposure

Specific target organ toxicity : Category 2 (Kidney)  
- repeated exposure (Oral)

**GHS label elements**

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Hazard pictograms	:	    
Signal word	:	Danger
Hazard statements	:	H225 Highly flammable liquid and vapour. H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H370 Causes damage to organs (Eyes, Central nervous system). H373 May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.
Precautionary statements	:	<b>Prevention:</b> 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. 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. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin 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. <b>Response:</b> P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. 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 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

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and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.

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

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

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.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Methanol	67-56-1	70 - 90
Ethenediol	107-21-1	1 - 5
hydrocarbon mixture rich in aromatics	64742-95-6	1 - 5
Proprietary ingredient 7314	Not Assigned	1 - 5
Proprietary ingredient 3315	Not Assigned	1 - 5
Coco dimethyl benzyl ammonium chloride	61789-71-7	1 - 5
Proprietary ingredient 8134	Not Assigned	1 - 5
1,2,4-Trimethylbenzene	95-63-6	1 - 5
Proprietary ingredient 1562	Not Assigned	1 - 5
2-Mercaptoethanol	60-24-2	0.1 - 1
Ethanol	64-17-5	0.1 - 1

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice : Remove/ Take off immediately all contaminated clothing. Get medical advice/ attention if you feel unwell.

If inhaled : Move the victim to fresh air. Give oxygen or artificial respiration if needed.

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- Get immediate medical advice/ attention.  
Never give anything by mouth to an unconscious person.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
Get medical attention immediately if irritation develops and persists.  
Wash contaminated clothing before reuse.
- In case of eye contact : Do not wear contact lenses.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get immediate medical advice/ attention.
- If swallowed : Rinse mouth.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Get medical advice/ attention.  
Call your local Poison Control Center (In the U.S. call 1-800-222-1222).
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).  
corrosive effects  
irritant effects
- Notes to physician : Treat symptomatically.

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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water mist  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Phosphorus oxides (eg Phosphorus pentoxide)  
Formaldehyde  
Flammable gases/vapours
- Further information : In the event of fire and/or explosion do not breathe fumes.  
Emits toxic and corrosive fumes under fire conditions.  
Do not allow run-off from fire fighting to enter drains or water courses.

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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Cool containers/tanks with water spray.

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly after handling.  
Remove all spark producing devices or ignition sources. Wear proper personnel protective equipment. Using non-sparking tools collect as a liquid for recycling/disposal or absorb onto a suitable absorbant and secure in a suitable container. Collect any contaminated soils or cleaning waste in a suitable container for proper disposal.  
Absorbent materials such as dry sand, absorbent booms, and vermiculite may be used to keep material from entering drains, sewers, or streams.

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean contaminated surface thoroughly.  
Incineration in suitable incineration plant, observing local authority regulations  
Take measures to prevent the build up of electrostatic charge.  
Dispose of in accordance with local regulations.

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Keep away sources of ignition.  
Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Use only with adequate ventilation/personal protection.  
For personal protection see section 8.  
Avoid contact with skin, eyes and clothing.  
Keep away from sources of ignition - No smoking.  
Keep tightly closed in a dry, cool and well-ventilated place.

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Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.  
Wash thoroughly after handling.  
Incompatible with oxidizing agents.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m <sup>3</sup>	NIOSH REL
		ST	250 ppm 325 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA Z-1
		STEL	250 ppm 325 mg/m <sup>3</sup>	OSHA P0
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA P0
Ethanediol	107-21-1	C	50 ppm 125 mg/m <sup>3</sup>	OSHA P0
		TWA (Vapour)	25 ppm	ACGIH
		STEL (Vapour)	50 ppm	ACGIH
		STEL (Inhalable fraction, Aerosol only)	10 mg/m <sup>3</sup>	ACGIH
hydrocarbon mixture rich in aromatics	64742-95-6	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
1,2,4-Trimethylbenzene	95-63-6	TWA	25 ppm 125 mg/m <sup>3</sup>	NIOSH REL
2-Mercaptoethanol	60-24-2	TWA	0.2 ppm	US WEEL
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA P0
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH

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		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0
Ethenediol	107-21-1	C	50 ppm 125 mg/m3	OSHA P0
		TWA (Vapour)	25 ppm	ACGIH
		STEL (Vapour)	50 ppm	ACGIH
		STEL (Inhalable fraction, Aerosol only)	10 mg/m3	ACGIH
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		TWA	400 ppm 1,600 mg/m3	OSHA P0
1,2,4-Trimethylbenzene	95-63-6	TWA	25 ppm 125 mg/m3	NIOSH REL
2-Mercaptoethanol	60-24-2	TWA	0.2 ppm	US WEEL
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

**Engineering measures** : Use only in area provided with appropriate exhaust ventilation.  
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.  
Use engineering controls such as local or general exhaust to

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maintain airborne concentrations below exposure limits.

**Personal protective equipment**

- Respiratory protection : In case of inadequate ventilation wear respiratory protection.
- Hand protection  
Material : butyl-rubber
- Eye protection : Wear safety glasses with side shields, chemical splash goggles, and /or full face shield to prevent contact with eyes.
- Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact.
- Protective measures : Observe the usual precautions for handling chemicals.
- Hygiene measures : Wash hands before breaks and at the end of workday.  
Take off immediately all contaminated clothing and wash it before reuse.  
Ensure that eyewash stations and safety showers are close to the workstation location.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Colour : clear, amber
- Odour : characteristic
- Odour Threshold : no data available
- pH : Not applicable
- Solidification point : < -40 °F / < -40 °C  
Data relate to solvent
- Boiling point : 149 °F / 65 °C  
Data relate to solvent
- Flash point : < 73 °F / < 23 °C
- Evaporation rate : 2.6  
The data refer to the solvent
- Self-ignition : no data available



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Upper explosion limit / upper flammability limit	:	36.6 %(V) Data relate to solvent
Lower explosion limit / Lower flammability limit	:	6 %(V) Data relate to solvent
Vapour pressure	:	13.3 kPa Data relate to solvent
Relative vapour density	:	no data available
Density	:	0.82 - 0.86 g/cm <sup>3</sup> (68 °F / 20 °C)
Solubility(ies) Water solubility	:	partly soluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	563 °F / 295 °C Data relate to solvent
Decomposition temperature	:	Not applicable
Viscosity Viscosity, dynamic	:	< 10 mPa.s (68 °F / 20 °C)
Explosive properties	:	no data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	Keep away from heat and sources of ignition.
Incompatible materials	:	Incompatible with oxidizing agents. Strong acids and strong bases
Hazardous decomposition products	:	When handled and stored appropriately, no dangerous decomposition products are known

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**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Skin contact

Eye contact

Ingestion

Inhalation

**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 128.9 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 3.93 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 369.88 mg/kg  
Method: Calculation method

**Components:****Methanol:**

Acute oral toxicity : LD50 (Rat, male and female): 1,187 - 2,769 mg/kg  
Method: Other  
GLP: no  
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): 87.5 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: Other  
GLP: no  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

**Ethanediol:**

Acute oral toxicity : LD50 (Rat, male and female): Method: Other  
GLP: no  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.5 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist

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Method: Other

GLP: yes

Acute dermal toxicity : LD50 (Mouse, male and female): > 3,500 mg/kg  
Method: Other  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

**hydrocarbon mixture rich in aromatics:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Remarks: By analogy with a product of similar composition

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.61 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: By analogy with a product of similar composition

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: By analogy with a product of similar composition

**Coco dimethyl benzyl ammonium chloride:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

**Proprietary ingredient 8134:**

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rat, male and female): > 1,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

**1,2,4-Trimethylbenzene:**

Acute oral toxicity : LD50 (Rat): 6,000 mg/kg  
Method: Other

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Acute inhalation toxicity : LC50 (Rat): 18000 mg/m<sup>3</sup>  
Exposure time: 4 h  
Test atmosphere: gas  
Assessment: The component/mixture is moderately toxic after short term inhalation.

**2-Mercaptoethanol:**

Acute oral toxicity : LD50 (Rat, male and female): 98 - 168 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Remarks: By analogy with a product of similar composition

Acute inhalation toxicity : LC50 (Rat, male): ca. 2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Other  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit, male and female): ca. 112 - 224 mg/kg  
Method: Other

**Ethanol:**

Acute oral toxicity : LD50 (Rat, male and female): 10,470 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 124.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation****Product:**

Result: Causes burns.

**Components:****Methanol:**

Species: Rabbit  
Exposure time: <= 20 h  
Method: Other  
Result: No skin irritation

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GLP: no

**Ethanediol:**

Species: Rabbit

Exposure time: 20 h

Method: Other

Result: No skin irritation

GLP: no

**hydrocarbon mixture rich in aromatics:**

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: non-irritant

GLP: yes

Remarks: By analogy with a product of similar composition

**Proprietary ingredient 7314:**

Result: Irritating to skin.

**Proprietary ingredient 3315:**

Result: Irritating to skin.

**Coco dimethyl benzyl ammonium chloride:**

Result: Causes burns.

**Proprietary ingredient 8134:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Causes burns.

**1,2,4-Trimethylbenzene:**

Result: Skin irritation

**Proprietary ingredient 1562:**

Result: Irritating to skin.

**2-Mercaptoethanol:**

Species: Rabbit

Method: Other

Result: Skin irritation

**Ethanol:**

Species: Rabbit

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Exposure time: 24 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

**Serious eye damage/eye irritation****Product:**

Result: Corrosive

**Components:****Methanol:**

Species: Rabbit  
Result: No eye irritation  
Method: Other  
GLP: no

**Ethanediol:**

Species: Rabbit  
Result: No eye irritation  
Exposure time: 24 h  
Method: Other  
GLP: no

**hydrocarbon mixture rich in aromatics:**

Species: rabbit eye  
Result: No eye irritation  
Method: OECD Test Guideline 405  
GLP: yes  
Remarks: By analogy with a product of similar composition

**Proprietary ingredient 7314:**

Result: Irritating to eyes.

**Proprietary ingredient 3315:**

Result: Irritating to eyes.

**Proprietary ingredient 8134:**

Remarks: Extremely corrosive and destructive to tissue.

**1,2,4-Trimethylbenzene:**

Result: Irritating to eyes.

**Proprietary ingredient 1562:**

Result: Irritating to eyes.

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**2-Mercaptoethanol:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Method: Draize Test

**Ethanol:**

Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

GLP: No information available.

**Respiratory or skin sensitisation****Product:**

Result: May cause sensitisation by skin contact.

**Components:****Methanol:**

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: no

Assessment: Toxic if swallowed, in contact with skin or if inhaled.

**Ethanediol:**

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

Assessment: Harmful if swallowed.

**hydrocarbon mixture rich in aromatics:**

Test Type: Buehler Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

GLP: yes

Remarks: By analogy with a product of similar composition

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**Proprietary ingredient 8134:**

Test Type: Buehler Test  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Not a skin sensitizer.

Assessment: Harmful if swallowed., Causes severe skin burns and eye damage.

**2-Mercaptoethanol:**

Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: The product is a skin sensitiser, sub-category 1A.  
GLP: yes

Assessment: Toxic if swallowed., Fatal in contact with skin., Toxic if inhaled., Causes skin irritation., Causes serious eye damage.  
May cause an allergic skin reaction.

**Ethanol:**

Exposure routes: Dermal  
Species: Mouse  
Method: Other  
Result: Not a skin sensitizer.  
GLP: No information available.

**Germ cell mutagenicity****Components:****Methanol:**

Genotoxicity in vitro : Test Type: Micronucleus test  
Test system: Chinese hamster lung cells  
Concentration: 40 mg/ml  
Method: Other  
Result: negative  
GLP: No information available.

Test Type: HGPRT assay  
Test system: Chinese hamster lung cells  
Concentration: 15,8 - 63,3 mg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: No information available.

Test Type: In vitro gene mutation study in bacteria  
Test system: Salmonella typhimurium  
Concentration: 5 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471



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Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: Chromosome Aberration Test  
Species: Mouse (male)  
Strain: C57BL/6 x DBA/2  
Application Route: Inhalation  
Exposure time: 5 d, 6 h/day  
Dose: 1,04 - 5,3 mg/l  
Method: Other  
Result: negative  
GLP: No information available.

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

**Ethanediol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 33 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Ames test  
Test system: Escherichia coli  
Concentration: 33 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: Other  
Result: negative  
GLP: yes

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Dominant lethal assay  
Species: Rat (male and female)  
Strain: Fischer F344  
Application Route: oral (feed)

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Exposure time: 3 generation  
Dose: 40 - 200 - 1000 mg/kg  
Method: Other  
Result: negative  
GLP: no

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

**hydrocarbon mixture rich in aromatics:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 0,001 - 5 µl/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.  
Remarks: By analogy with a product of similar composition

Test Type: In vitro gene mutation study in bacteria  
Test system: mouse lymphoma cells  
Concentration: 0,065 - 1,004 µl/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: No information available.  
Remarks: By analogy with a product of similar composition

Genotoxicity in vivo : Test Type: Chromosome Aberration Test  
Species: Rat (male and female)  
Strain: Sprague-Dawley  
Cell type: Bone marrow  
Application Route: Inhalation  
Exposure time: 6 h/day, 5 d/week, 28 d  
Dose: 2000-10000-20000 mg/m<sup>3</sup>  
Method: OPPTS 870.5395  
Result: negative  
GLP: yes

Test Type: Micronucleus test  
Species: Rat (male)  
Strain: Sprague-Dawley  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Exposure time: 1x per day, 5 d  
Dose: 72 - 240 - 720 mg/kg  
Method: OECD Test Guideline 475  
Result: negative  
GLP: No information available.  
Test substance: other TS

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Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

**Proprietary ingredient 8134:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: mammalian cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test Type: Mammalian cell gene mutation assay  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**2-Mercaptoethanol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Mammalian cell gene mutation assay  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**Ethanol:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium

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Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: No information available.

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Method: OECD Test Guideline 473  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Rat (male)  
Strain: Other  
Cell type: Bone marrow  
Application Route: Drinking water  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No information available.

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

### Carcinogenicity

#### Components:

##### **Methanol:**

Species: Rat, (male and female)  
Application Route: Inhalation  
Exposure time: 24  
Dose: 0,013 - 0,13 - 1,3 mg/l  
Group: yes  
Frequency of Treatment: 20 h/day  
NOAEL: >= 1.3 mg/l  
Method: OECD Test Guideline 453  
GLP: No information available.

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

##### **Ethanediol:**

Species: Mouse, (male and female)  
Application Route: oral (feed)  
Exposure time: 2 a

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Dose: 6250-12500-25000-50000 ppm

Group: yes

Frequency of Treatment: daily

NOAEL: 1,500 mg/kg bw/day

Method: Other

GLP: yes

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**hydrocarbon mixture rich in aromatics:**

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

**Proprietary ingredient 8134:**

Species: Rat, (male and female)

Method: OECD Test Guideline 453

Result: negative

Remarks: No significant adverse effects were reported

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**2-Mercaptoethanol:**

Carcinogenicity - Assessment : No information available.

**Ethanol:**

Species: Mouse, (female)

Application Route: Drinking water

Exposure time: 105 weeks

Dose: 0, 2.5 and 5% in drinking water

Group: yes

4,400 mg/kg bw/day

Method: OPPTS 870.4200

GLP: yes

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**IARC**

Group 1: Carcinogenic to humans

Ethanol 64-17-5

**OSHA**

Carcinogen

Ethanol 64-17-5

**NTP**

No component of this product present at levels greater than or

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equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Components:****Methanol:**

Effects on fertility

: Test Type: Two-generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: Inhalation  
Dose: 0,013 - 0,13 - 1,3 mg/l  
Duration of Single Treatment: 20 h  
General Toxicity - Parent: NOAEC: 1.3 mg/l  
General Toxicity F1: NOAEC: 0.13 mg/l  
General Toxicity F2: NOAEC: 0.13 mg/l  
Method: OECD Test Guideline 416  
GLP: No information available.

Effects on foetal development

: Test Type: Pre-natal  
Species: Rat, female  
Strain: Sprague-Dawley  
Application Route: Inhalation  
Dose: 0,27 - 1,33 - 6,65 mg/l  
Duration of Single Treatment: 22.7 h  
General Toxicity Maternal: NOAEC: 1.33 mg/l  
Teratogenicity: NOAEC F1: 1.33 mg/l  
Method: OECD Test Guideline 414  
GLP: No information available.

Test Type: Pre-natal  
Species: Rat  
Strain: Long-Evans  
Application Route: oral (gavage)  
Dose: 1027 - 2054 - 4108 mg/kg  
Frequency of Treatment: 1  
General Toxicity Maternal: LOAEL: 1,027 mg/kg body weight  
Teratogenicity: LOAEL F1: 1,027 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: No information available.

Reproductive toxicity - Assessment

: No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

**Ethanediol:**

Effects on fertility

: Test Type: Three-generation study  
Species: Rat, male and female  
Strain: Fischer F344  
Application Route: oral (feed)  
Dose: 40 - 200 - 1000  
General Toxicity - Parent: NOAEL: > 1,000 mg/kg body weight

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General Toxicity F1: NOAEL: > 1,000 mg/kg body weight  
General Toxicity F2: NOAEL: > 1,000 mg/kg body weight  
Method: Other  
GLP: no

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat, female  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 150 - 500 - 1000 - 2500 mg/kg  
Duration of Single Treatment: 9 d  
General Toxicity Maternal: NOEL: 1,500 mg/kg body weight  
Teratogenicity: NOEL: 150 mg/kg body weight  
Method: Other  
GLP: yes

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

**hydrocarbon mixture rich in aromatics:**

Effects on fertility : Test Type: One generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: Inhalation  
Dose: 5090-12490-24690 mg/m<sup>3</sup>  
Duration of Single Treatment: 6 h  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: NOAEL: 24.7 mg/l  
General Toxicity F1: NOAEL: 24.7 mg/l  
Method: OECD Test Guideline 421  
GLP: yes  
Remarks: By analogy with a product of similar composition

Test Type: Two-generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: Inhalation  
Dose: 5000-10000-20000 mg/m<sup>3</sup>  
Duration of Single Treatment: 6 h  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: NOAEL: >= 20 mg/l  
General Toxicity F1: NOAEL: >= 20 mg/l  
Method: OECD Test Guideline 416  
GLP: yes  
Remarks: By analogy with a product of similar composition

Effects on foetal development : Test Type: Fertility/early embryonic development  
Species: Rat  
Strain: Sprague-Dawley  
Application Route: Inhalation  
Dose: 2,653 - 7,96 - 23,9 mg/l

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Duration of Single Treatment: 14 d  
Frequency of Treatment: 6 daily  
General Toxicity Maternal: NOAEL: 23.9  
Developmental Toxicity: NOAEL: 23.9  
Method: OECD Test Guideline 414  
GLP: yes

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

**Proprietary ingredient 8134:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: oral (feed)  
General Toxicity - Parent: NOAEL: 109 mg/kg body weight  
General Toxicity F1: NOAEL: 109 mg/kg body weight  
General Toxicity F2: NOAEL: 137 mg/kg body weight  
Method: OECD Test Guideline 416

Effects on foetal development : Test Type: Pre-natal  
Species: Rabbit  
Strain: New Zealand white  
Application Route: oral (gavage)  
General Toxicity Maternal: NOAEL: 12 mg/kg body weight  
Teratogenicity: NOAEL: 12 mg/kg body weight  
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**2-Mercaptoethanol:**

Effects on fertility : Species: Rat, male and female  
Strain: Sprague-Dawley  
General Toxicity - Parent: NOAEL: 15 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes

Effects on foetal development : Species: Rat  
Strain: wistar  
Application Route: oral (gavage)  
General Toxicity Maternal: NOAEL: 25 mg/kg body weight  
Developmental Toxicity: NOAEL: 25 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

Reproductive toxicity - Assessment : Suspected human reproductive toxicant

**Ethanol:**



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- Effects on fertility : Test Type: Two-generation study  
Species: Mouse, male and female  
Strain: CD1  
Application Route: Drinking water  
Dose: 5, 10 and 15% v/v in water  
Duration of Single Treatment: 126 d  
General Toxicity - Parent: NOAEL: 15 %  
General Toxicity F1: NOAEL: 10 %  
General Toxicity F2: NOAEL: < 15 %  
Method: OECD Test Guideline 416  
GLP: No information available.
- Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Strain: Sprague-Dawley  
Application Route: Inhalation  
Dose: 10000, 16000, 20000 ppm nom.  
Duration of Single Treatment: 19 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 16,000 ppm  
Teratogenicity: NOAEL: 20,000 ppm  
Method: OECD Test Guideline 414  
GLP: No information available.
- Reproductive toxicity - Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

**STOT - single exposure****Components:****Methanol:**

Target Organs: Eyes, Central nervous system  
Assessment: Causes damage to organs.

**Ethanediol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**hydrocarbon mixture rich in aromatics:**

Assessment: May cause drowsiness or dizziness.

Assessment: May cause respiratory irritation.

**Proprietary ingredient 8134:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

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**1,2,4-Trimethylbenzene:**

Target Organs: Respiratory system

Assessment: May cause respiratory irritation.

**2-Mercaptoethanol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Ethanol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure****Components:****Methanol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Ethanediol:**

Exposure routes: Oral

Target Organs: Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

**hydrocarbon mixture rich in aromatics:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Proprietary ingredient 8134:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**2-Mercaptoethanol:**

Target Organs: Liver, Heart

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Ethanol:**

Remarks: no data available

**Repeated dose toxicity****Components:****Methanol:**

Species: Monkey, male

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LOAEL: 2,340 mg/kg  
Application Route: oral (gavage)  
Exposure time: 3 d  
Number of exposures: daily  
Dose: 2340 mg/kg  
Group: no data available  
Method: Other  
GLP: No information available.  
Remarks: Significant toxicity observed in testing

Species: Rat, male and female  
NOEL: 0.13 mg/l  
LOAEL: 1.3 mg/l  
Application Route: Inhalation  
Test atmosphere: vapour  
Exposure time: 12 m  
Number of exposures: 20 h/day  
Dose: 0,013 - 0,13 - 1,3 mg/l  
Group: yes  
Method: OECD Test Guideline 453  
GLP: No information available.

Species: Rat, male and female  
NOAEL: 6.66 mg/l  
Application Route: Inhalation  
Test atmosphere: vapour  
Exposure time: 4 w  
Number of exposures: 6 h/d, 5 d/wk  
Dose: 0,663 - 2,65 - 6,63 mg/l  
Group: yes  
Method: OECD Test Guideline 412  
GLP: No information available.

Application Route: Skin contact  
Remarks: not tested.

Repeated dose toxicity - Assessment : Toxic if swallowed, in contact with skin or if inhaled.

**Ethanediol:**

Species: Rat, male  
NOAEL: 150 mg/kg bw/day  
Application Route: oral (feed)  
Exposure time: 16 w  
Number of exposures: daily  
Dose: 50 - 150 - 500 - 1000 mg/kg  
Group: yes  
Method: OECD Test Guideline 408  
GLP: No information available.

Species: Dog, male

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NOAEL: 2.200 - 4.400 mg/kg bw/day  
Application Route: Dermal  
Exposure time: 4 w  
Number of exposures: daily  
Dose: 2 - 4 mL/kg bw  
Group: yes  
Method: OECD Test Guideline 410  
GLP: yes

Repeated dose toxicity - : Harmful if swallowed.  
Assessment

**hydrocarbon mixture rich in aromatics:**

Species: Rat, male  
LOAEL: 500 mg/kg  
Application Route: oral (gavage)  
Exposure time: 28 d  
Number of exposures: daily  
Dose: 500 - 2000 mg/kg  
Group: yes  
Method: Other  
GLP: yes  
Remarks: By analogy with a product of similar composition

Species: Rat, male and female  
NOAEL: 1.402 mg/l  
Application Route: Inhalation  
Exposure time: 107 - 109 w  
Number of exposures: 6 h / day, 5 days/week  
Dose: 322 - 1402 - 9869 mg/m<sup>3</sup>  
Group: yes  
Method: OECD Test Guideline 453  
GLP: No information available.  
Remarks: By analogy with a product of similar composition

Species: Rat, male and female  
NOAEL: 9.84 mg/l  
Application Route: Inhalation  
Exposure time: 28 d  
Number of exposures: 6 h / day, 5 days/week  
Dose: 328 - 1406 - 9840 mg/m<sup>3</sup>  
Group: yes  
Method: OECD Test Guideline 412  
GLP: yes  
Remarks: By analogy with a product of similar composition

Species: Rat, male and female  
NOAEL: < 375 mg/kg  
Application Route: Skin contact  
Exposure time: 28 d  
Number of exposures: 6 h / day, 5 days/week

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Dose: 375-750-1500-1875-3750-7500mg/  
Group: yes  
Method: OECD Test Guideline 410  
GLP: yes  
Remarks: By analogy with a product of similar composition

**Proprietary ingredient 8134:**

Species: Rat, male and female  
NOAEL: 31 mg/kg bw/day  
Application Route: oral (feed)  
Method: OECD Test Guideline 453

Repeated dose toxicity - Assessment : Harmful if swallowed., Causes severe skin burns and eye damage.

**2-Mercaptoethanol:**

Species: Rat, male and female  
NOAEL: 15 mg/kg  
Application Route: oral (gavage)  
Method: OECD Test Guideline 422  
GLP: yes

Repeated dose toxicity - Assessment : Toxic if swallowed., Fatal in contact with skin., Toxic if inhaled., Causes skin irritation., Causes serious eye damage.

**Ethanol:**

Species: Rat, male and female  
LOAEL: ca. 3200 mg/kg  
Application Route: oral (gavage)  
Exposure time: 7 weeks or 14 weeks  
Number of exposures: twice daily, 7 days a week  
Dose: 5, 10, 20 ml/kg  
Group: yes  
Method: OECD Test Guideline 408  
GLP: No information available.

Species: Rat, male  
NOEL: > 20 mg/l  
Application Route: inhalation (vapour)  
Exposure time: 3, 6, 9, 26 day groups  
Number of exposures: continuous  
Dose: 20 mg/l  
Group: yes  
Method: Other  
GLP: No information available.

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**Aspiration toxicity****Components:****Methanol:**

No aspiration toxicity classification

**Ethenediol:**

No aspiration toxicity classification

**hydrocarbon mixture rich in aromatics:**

May be fatal if swallowed and enters airways.

**Proprietary ingredient 8134:**

No aspiration toxicity classification

**2-Mercaptoethanol:**

no data available

**Ethanol:**

No aspiration toxicity classification

**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**Toxicity to fish :  
Remarks: not tested.Toxicity to daphnia and other :  
aquatic invertebrates Remarks: not tested.Toxicity to algae/aquatic :  
plants Remarks: not tested.**Components:****Methanol:**Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l  
End point: mortality

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- Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: EPA  
GLP: No information available.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 18,260 mg/l  
End point: Immobilization  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no data available  
Method: OECD Test Guideline 202  
GLP: No information available.  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (microalgae)): ca. 22,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no data available  
Method: OECD Test Guideline 201  
GLP: No information available.
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 446.7 mg/l  
Exposure time: 28 d  
Method: Other  
GLP: no  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 208 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Method: calculated  
GLP: no  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
- Toxicity to microorganisms : IC50 (activated sludge): > 1,000 mg/l  
End point: Bacteria toxicity (growth inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Analytical monitoring: yes  
Method: OECD Test Guideline 209  
GLP: No information available.
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1 mg/cm2  
Exposure time: 48 h

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End point: mortality  
Method: OECD Test Guideline 207  
GLP: No information available.

NOEC (Folsomia candida): 10000 mg/kg dry weight (d.w.)  
Exposure time: 28 d  
End point: mortality  
Method: Other  
GLP: No information available.

Plant toxicity : IC50: ca. 41,000 mg/l  
Exposure time: 3 d  
End point: emergence  
Species: Lactuca sativa (lettuce)  
Analytical monitoring: no data available  
Method: Other  
GLP: no

Sediment toxicity : Remarks: Not applicable

**Ethanediol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 72,860 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: EPA  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 6,500 - 13,000 mg/l  
End point: Growth rate  
Exposure time: 7 d  
Test Type: static test  
Analytical monitoring: no data available  
Method: EPA  
GLP: No information available.

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value (Fish): 2,629 mg/l  
End point: Other  
Exposure time: 30 d  
Method: Other  
GLP: no



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Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia spec.): 8,590 mg/l  
End point: Reproduction rate  
Exposure time: 7 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: Other  
GLP: No information available.  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to microorganisms : EC20 (activated sludge, domestic): > 1,995 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 0.5 h  
Analytical monitoring: no  
Method: ISO 8192  
GLP: no

**hydrocarbon mixture rich in aromatics:**

- Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): 8.2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: EPA  
GLP: yes  
Remarks: By analogy with a product of similar composition  
The details of the toxic effect relate to the nominal concentration.
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4.5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: By analogy with a product of similar composition  
The details of the toxic effect relate to the nominal concentration.
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: By analogy with a product of similar composition

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The details of the toxic effect relate to the nominal concentration.

- Toxicity to fish (Chronic toxicity) : Remarks: no data available
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 13 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 15.41 mg/l  
End point: Growth rate  
Exposure time: 40 h  
Test Type: aquatic  
Analytical monitoring: no  
Method: estimated  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to soil dwelling organisms : NOEC (other soil dwelling arthropod): 0.4 - 20.8 mg/kg  
Method: Other  
GLP: no  
Remarks: By analogy with a product of similar composition
- Plant toxicity : NOEC: 0.4 - 20.8 mg/kg  
Species: other terrestrial plant  
Method: Other  
GLP: no  
Remarks: By analogy with a product of similar composition
- Sediment toxicity : Remarks: Not applicable
- Toxicity to terrestrial organisms : Remarks: Not applicable

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Coco dimethyl benzyl ammonium chloride:****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.49 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.029 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (algae)): 0.062 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- ErC10 (Pseudokirchneriella subcapitata (algae)): 0.02 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to fish (Chronic toxicity) : Remarks: no data available
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.021 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes
- Toxicity to microorganisms : EC10 (activated sludge): 5.95 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes

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EC50 (Bacteria): 120  
Exposure time: 28 d  
Test Type: Soil  
Analytical monitoring: yes  
Method: OECD Test Guideline 216  
GLP: yes

Toxicity to soil dwelling organisms : EC50 (*Eisenia fetida* (earthworms)): 509 mg/kg  
Exposure time: 28 d  
End point: Reproduction  
Method: OECD Test Guideline 222

Plant toxicity : EC50: 235 mg/kg  
Exposure time: 14 d  
End point: Growth  
Species: *Triticum aestivum* (wheat)  
Analytical monitoring: yes  
Method: OECD Test Guideline 208  
GLP: yes

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**1,2,4-Trimethylbenzene:**

Toxicity to fish : LC50: 22.4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (*Elasmopus pecteniscus*): 4.910 mg/l  
Exposure time: 48 h  
Remarks: salt water

**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**2-Mercaptoethanol:**

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 37 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: Other

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.4 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

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Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 19 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 0.063 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Ethanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15,300 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: Other  
GLP: No information available.

LC50 (Oncorhynchus mykiss (rainbow trout)): 11,200 mg/l  
End point: mortality  
Exposure time: 24 h  
Test Type: flow-through test  
Analytical monitoring: no  
Method: Other  
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l  
End point: mortality  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: Other  
GLP: No information available.

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
End point: Immobilization  
Exposure time: 48 h

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Method: DIN 38412

GLP: no

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC10 (Chlorella vulgaris (Fresh water algae)): 11.5 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 250 mg/l  
End point: Other  
Exposure time: 120 h  
Test Type: semi-static test  
Method: OECD Test Guideline 212  
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : EC50 (Natural microorganism): 5,800 mg/l  
Exposure time: 4 h  
Test Type: static test

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

**Persistence and degradability****Product:**

Biodegradability : Remarks: Not applicable

**Components:****Methanol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 3 - 10 mg/l  
Biochemical Oxygen Demand (BOD)  
Result: Readily biodegradable.  
Biodegradation: 95 %

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Exposure time: 20 d  
Method: Closed Bottle test  
GLP: no

aerobic  
Inoculum: activated sludge  
Concentration: 4 - 200 g/l  
Biochemical Oxygen Demand (BOD)  
Result: Readily biodegradable.  
Biodegradation: 82.7 %  
Exposure time: 5 d  
Method: Other  
GLP: no

Photodegradation : Rate constant: 9.32E-13 cm<sup>3</sup>/s  
Degradation (indirect photolysis): 50 % Degradation half life:  
17.2 d  
GLP: no

**Ethanediol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 53 mg/l  
Dissolved organic carbon (DOC)  
Result: Readily biodegradable.  
Biodegradation: 90 - 100 %  
Exposure time: 10 d  
Method: OECD Test Guideline 301A  
GLP: yes

**hydrocarbon mixture rich in aromatics:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 20 mg/l  
Carbon dioxide (CO<sub>2</sub>)  
Result: Readily biodegradable.  
Biodegradation: 90.4 %  
Exposure time: 28 d  
Method: OPPTS 835.3120 (ISO/DIS-14593)  
GLP: yes  
Remarks: By analogy with a product of similar composition

aerobic  
Inoculum: activated sludge  
Concentration: 49.2 mg/l  
Biochemical oxygen demand  
Result: Readily biodegradable.  
Biodegradation: 77.1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

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Remarks: By analogy with a product of similar composition

Physico-chemical  
removability : Remarks: Readily biodegradable, according to appropriate  
OECD test.

**Proprietary ingredient 8134:**

Biodegradability : aerobic  
Inoculum: Other  
Concentration: 4 mg/l  
Biochemical Oxygen Demand (BOD)  
Result: Readily biodegradable.  
Biodegradation: 69 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

**2-Mercaptoethanol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 20 mg/l  
Result: Biodegradable  
Biodegradation: 69 %  
Exposure time: 60 d  
Method: OECD Test Guideline 310  
GLP: yes

**Ethanol:**

Biodegradability : aerobic  
Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 20 d

**Bioaccumulative potential****Components:****Methanol:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)  
Bioconcentration factor (BCF): < 10  
Exposure time: 72 h  
Method: Other  
GLP: No information available.

Partition coefficient: n-  
octanol/water : log Pow: -0.77  
Method: No information available.  
GLP: No information available.

**Ethanediol:**

Bioaccumulation : Remarks: Due to the low logPow bioaccumulation is not



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expected

Partition coefficient: n-  
octanol/water : log Pow: -1.36  
Method: estimated  
GLP: no

**hydrocarbon mixture rich in aromatics:**

Bioaccumulation : Remarks: Not applicable

**Proprietary ingredient 8134:**

Bioaccumulation : Bioconcentration factor (BCF): 71  
Method: calculated  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-  
octanol/water : log Pow: 2.59 (68 °F / 20 °C)  
pH: 7  
Method: Other  
GLP: no

**Ethanol:**

Bioaccumulation : Bioconcentration factor (BCF): 0.66  
Method: calculated  
Remarks: Does not bioaccumulate.

Partition coefficient: n-  
octanol/water : log Pow: -0.35 (75 °F / 24 °C)  
pH: 7.4  
Method: OECD Test Guideline 107

**Mobility in soil****Components:****Methanol:**

Distribution among  
environmental compartments : Adsorption/Soil  
Medium: water - soil  
Koc: 1  
Method: other (calculated)

**Ethanediol:**

Distribution among  
environmental compartments : Adsorption/Soil  
Medium: water - soil  
log Koc: 0  
Method: other (calculated)

**hydrocarbon mixture rich in aromatics:**

Distribution among  
environmental compartments : Adsorption/Soil  
Medium: water - soil  
log Koc: -2.4 - 1.8  
Method: estimated

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**Proprietary ingredient 8134:**

Distribution among environmental compartments : Adsorption/Soil  
Koc: 14.072  
Method: OECD Test Guideline 106

**Ethanol:**

Distribution among environmental compartments : adsorption  
Medium: water - soil  
Remarks: Not expected to adsorb on soil.

**Other adverse effects****Components:****Methanol:**

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

**Ethanediol:**

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

**hydrocarbon mixture rich in aromatics:**

Environmental fate and pathways : no data available

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

**Proprietary ingredient 8134:**

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

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**Ethanol:**

- Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
- Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- RCRA - Resource Conservation and Recovery Act Waste Code : Yes -- If it becomes a waste as sold.  
D001
- Waste from residues : Dispose of this product in accordance with all applicable local, state and federal regulations.
- Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

**SECTION 14. TRANSPORT INFORMATION****DOT Regulation:**

- UN/NA-number: UN 3286  
Proper shipping name: Flammable liquid, toxic, corrosive, n.o.s.  
Technical Name: Methanol  
Alkyldimethylbenzylammoniumchloride
- Primary hazard class: 3  
Subsidiary hazard class: 6.1  
Tertiary hazard class: 8  
Packing group: II  
Reportable Quantity: 2,522.000 kg Methanol
- Emergency Response Guide: 131

**IATA**

- UN/ID number: UN 3286  
Proper shipping name: Flammable liquid, toxic, corrosive, n.o.s.  
Hazard inducer(s): Methanol  
Alkyldimethylbenzylammoniumchloride
- Primary risk: 3  
Subsidiary risk: 6.1  
Tertiary risk: 8

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Packing group: II  
Remarks: Shipment permitted

**IMDG**

UN no.: UN 3286  
Proper shipping name: Flammable liquid, toxic, corrosive, n.o.s.  
Hazard inducer(s): Methanol  
Alkyldimethylbenzylammoniumchloride

Primary risk: 3  
Subsidiary risk: 6.1  
Tertiary risk: 8  
Packing group: II  
EmS: F-E S-C

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methanol	67-56-1	5000	6674
Ethenediol	107-21-1	5000	*
Phosphoric acid	7664-38-2	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

A characteristic waste RQ of 100 lbs applies to this product in a waste form: D001

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Respiratory or skin sensitisation  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Methanol	67-56-1	>= 70 - < 90 %
Ethenediol	107-21-1	>= 1 - < 5 %
1,2,4-Trimethylbenzene	95-63-6	>= 1 - < 5 %

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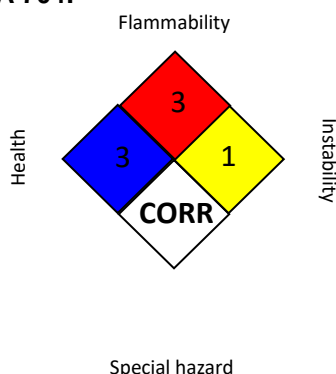
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**Clean Water Act**

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307, This product is an oil in the context of the USA Clean Water Act (CWA). Spills to USA surface waters, or to watercourse or sewer waters that cause a visible sheen must be reported to the National Response Center.

**The components of this product are reported in the following inventories:**

TSCA : All components are compliant with the TSCA Inventory Notification (Active) rule.

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
 NIOSH REL : USA. NIOSH Recommended Exposure Limits  
 OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
 US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
 ACGIH / TWA : 8-hour, time-weighted average  
 ACGIH / STEL : Short-term exposure limit  
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
 NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday  
 OSHA P0 / TWA : 8-hour time weighted average  
 OSHA P0 / STEL : Short-term exposure limit  
 OSHA P0 / C : Ceiling limit  
 OSHA Z-1 / TWA : 8-hour time weighted average  
 US WEEL / TWA : 8-hr TWA

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AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Observe all necessary precautions for handling corrosive liquids.

Observe all necessary precautions for handling flammable substances. Keep away from sources of heat and ignition. Smoking should be prohibited where material is being handled. Electrical grounding of equipment is required.

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