

**ACCELERATOR DY 9741 US**

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**SECTION 1. IDENTIFICATION**

Product name : ACCELERATOR DY 9741 US

**Manufacturer or supplier's details**

Company name of supplier : Huntsman Advanced Materials Americas LLC  
Address : P.O. Box 4980  
The Woodlands,  
TX 77387  
United States of America  
Telephone : Non-Emergency: (800) 257-5547  
E-mail address of person responsible for the SDS : MSDS@huntsman.com  
Emergency telephone : Chemtrec: (800) 424-9300 or (703) 527-3887

**Recommended use of the chemical and restrictions on use**

Recommended use : Adhesives and/or sealants

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Flammable liquids : Category 3  
Acute toxicity (Oral) : Category 4  
Skin irritation : Category 2  
Serious eye damage : Category 1  
Reproductive toxicity : Category 1B  
Specific target organ systemic toxicity - single exposure (Oral) : Category 1 (Central nervous system, Kidney, Liver, Bladder, Nervous system)  
Specific target organ systemic toxicity - single exposure : Category 2 (Central nervous system, Kidney)  
Specific target organ systemic toxicity - repeated exposure : Category 2 (Central nervous system, Kidney, Liver)

**GHS Label element**

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Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H360 May damage fertility or the unborn child.  
 H370 Causes damage to organs (Central nervous system, Kidney, Liver, Bladder, Nervous system) if swallowed.  
 H371 May cause damage to organs (Central nervous system, Kidney).  
 H373 May cause damage to organs (Central nervous system, Kidney, Liver) through prolonged or repeated exposure.

Precautionary Statements

: **Prevention:**  
 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.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
 P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
 P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.  
 P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/ physician.  
 P332 + P313 If skin irritation 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 + P235 Store in a well-ventilated place. Keep cool.

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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

**Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
Triethylenediamine	280-57-9	30 - 60
Ethylene glycol	107-21-1	13 - 30
methanol	67-56-1	7 - 13

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms : None known.

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and effects, both acute and delayed

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : No data is available on the product itself.
- Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- No data is available on the product itself.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No data is available on the product itself.
- Specific extinguishing methods : No data is available on the product itself.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- 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).

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Prevent unauthorized access. No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethylene glycol	107-21-1	C (Aerosol only)	100 mg/m <sup>3</sup>	ACGIH
		C	50 ppm 125 mg/m <sup>3</sup>	OSHA PEL
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA Z-1
		STEL	250 ppm 325 mg/m <sup>3</sup>	OSHA PEL
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA PEL

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**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
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- Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles.  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and immediately after handling the product.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Color : light yellow
- Odor : characteristic
- Odor Threshold : No data is available on the product itself.
- pH : No data is available on the product itself.
- Boiling point : 129 °C
- Flash point : 44 °C  
Method: closed cup
- Evaporation rate : ca. 1
- Flammability (solid, gas) : No data is available on the product itself.
- Upper explosion limit : 36.5 %(V)
- Lower explosion limit : 6 %(V)
- Vapor pressure : 19.995 hPa (20 °C)
- Relative vapor density : 1

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Relative density : 1.15

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : partly soluble

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Autoignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Viscosity : No data is available on the product itself.

Self-Accelerating decomposition temperature (SADT) : No data is available on the product itself.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : No data is available on the product itself.

**Acute toxicity**

Acute oral toxicity - Product : Acute toxicity estimate : 1,193 mg/kg  
Method: Calculation method

**Ingredients:**

Triethylenediamine:

Acute inhalation toxicity : LC50 (Rat): > 20.2 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

methanol:

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Acute inhalation toxicity : LC50 (Rat, male and female): 128.2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Other guidelines

**Ingredients:**

Triethylenediamine:  
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

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

methanol:  
Acute dermal toxicity : LD50 (Rabbit): 15,800 mg/kg

Acute toxicity (other routes of administration) : No data available

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

Remarks: Extremely corrosive and destructive to tissue.

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

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitization****Ingredients:**

Triethylenediamine:  
Routes of exposure: Skin  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitization.

Ethylene glycol:  
Routes of exposure: Skin  
Species: Guinea pig  
Result: Does not cause skin sensitization.

methanol:  
Routes of exposure: Skin  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitization.

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**Ingredients:**

Ethylene glycol:  
Assessment: Mild eye irritation

**Germ cell mutagenicity****Ingredients:**

Triethylenediamine:  
Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Ethylene glycol:  
Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Result: negative

methanol:  
Genotoxicity in vitro : Concentration: 15.8 - 63.3 mg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Concentration: 5 - 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Concentration: ca 40 mg/ml  
Metabolic activation: negative  
Result: negative

**Ingredients:**

Triethylenediamine:  
Genotoxicity in vivo : Application Route: Oral  
Dose: 0 - 900 mg/kg  
Result: negative

Ethylene glycol:  
Genotoxicity in vivo : Cell type: Germ  
Application Route: Oral  
Dose: 1000 mg/kg  
Result: negative

methanol:  
Genotoxicity in vivo : Application Route: Intraperitoneal injection  
Dose: 1920 - 4480 mg/kg  
Method: OECD Test Guideline 474  
Result: negative

**Carcinogenicity****Ingredients:**

Ethylene glycol:  
Species: Rat, (male and female)  
Application Route: Oral

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Exposure time: 24 month(s)  
Dose: 1000 mg/kg  
Frequency of Treatment: 7 daily  
Result: negative

Species: Mouse, (male and female)  
Application Route: Oral  
Exposure time: 103 weeks  
Dose: 1500 mg/kg  
Result: negative

methanol:  
Species: Rat, (male and female)  
Application Route: Inhalation  
Exposure time: 24 month(s)  
Dose: >= 1300 mg/m<sup>3</sup>  
Frequency of Treatment: 20 hour  
Method: OECD Test Guideline 453  
Result: negative

Species: Mouse, (male and female)  
Application Route: Inhalation  
Exposure time: 18 month(s)  
Dose: 13 - 1300 mg/m<sup>3</sup>  
Frequency of Treatment: 19 hour  
Method: OECD Test Guideline 453  
Result: negative

Carcinogenicity - Assessment : No data available

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Ingredients:**

Triethylenediamine:  
Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Method: OECD Test Guideline 422  
GLP: yes

methanol:  
Species: Rat, male and female  
Application Route: Inhalation  
Method: OECD Test Guideline 416

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Species: Monkey, female  
Application Route: Inhalation

Species: Mouse, male  
Application Route: Oral

**Ingredients:**

Triethylenediamine:

Effects on fetal development : Species: Rat, female  
Application Route: Oral  
Result: No teratogenic effects.

Species: Rat, male and female  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 300 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: No teratogenic effects.

Ethylene glycol:

Species: Rabbit, male and female  
Application Route: Oral  
Result: No teratogenic effects.

methanol:

Species: Monkey  
Application Route: Inhalation  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 2,390 mg/m<sup>3</sup>  
Result: No teratogenic effects.

**Ingredients:**

methanol:

Reproductive toxicity - Assessment : Presumed human reproductive toxicant

**STOT-single exposure****Ingredients:**

Ethylene glycol:

Target Organs: Kidney, Central nervous system  
Assessment: May cause damage to organs.

methanol:

Routes of exposure: Ingestion  
Target Organs: Central nervous system, Kidney, Liver, Bladder, Nervous system  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

**STOT-repeated exposure****Ingredients:**

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Ethylene glycol:

Target Organs: Kidney, Central nervous system, Liver

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

**Repeated dose toxicity****Ingredients:**

Triethylenediamine:

Species: Rat, male and female

Lowest Observed Effect Concentration: 60 mg/m<sup>3</sup>

Application Route: Ingestion

Test atmosphere: dust/mist

Exposure time: 696 h

Number of exposures: 7 d

Method: OECD Test Guideline 412

Ethylene glycol:

Species: Rat, male and female

NOAEL (No observed adverse effect level): 200 mg/kg/d

Application Route: Ingestion

Exposure time: 17,280 h

Method: Chronic toxicity

Species: Rat, male

NOAEL (No observed adverse effect level): 150 mg/kg/d

Application Route: Ingestion

Exposure time: 8,640 h

Number of exposures: 7 d

Method: Chronic toxicity

methanol:

Species: Monkey

NOEC: 13 mg/m<sup>3</sup>

Test atmosphere: vapor

Exposure time: 5,040 h

Number of exposures: 21 h

Species: Monkey, male and female

NOEC: 6660 mg/m<sup>3</sup>

Application Route: Ingestion

Test atmosphere: vapor

Exposure time: 72 h

Number of exposures: 6 h

Method: OECD Test Guideline 412

Species: Monkey

NOEC: 1300 mg/m<sup>3</sup>

Test atmosphere: vapor

Exposure time: 1,440 h

Number of exposures: 21 h

Species: Monkey

Lowest Observed Effect Concentration: 3990 mg/m<sup>3</sup>

Test atmosphere: vapor

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Exposure time: 480 h  
Number of exposures: 21 h

**Ingredients:**

Ethylene glycol:  
Repeated dose toxicity - Assessment : Mild eye irritation

**Aspiration toxicity****Ingredients:**

methanol:  
The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

**Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information****Product:**

Remarks: Solvents may degrease the skin.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:**

Triethylenediamine:  
Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l  
Exposure time: 96 h  
Test substance: Fresh water  
Method: OECD Test Guideline 203

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Ethylene glycol:  
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 72,860 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water

methanol:  
Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Test substance: Fresh water

**Ingredients:**

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

Ethylene glycol:  
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

methanol:  
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: DIN 38412

**Ingredients:**

Triethylenediamine:  
Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 180 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Ethylene glycol:  
Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 6,500 - 13,000 mg/l  
Exposure time: 96 h

methanol:  
Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): ca. 22,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic) : No data available

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toxicity)

**Ingredients:**

Ethylene glycol:  
Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 15,380 mg/l  
Exposure time: 7 d  
Test Type: static test  
Test substance: Fresh water

**Ingredients:**

Triethylenediamine:  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 92 mg/l  
Exposure time: 48 hrs  
Test Type: static test  
Method: OECD Test Guideline 202

Ethylene glycol:  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (Water flea)): 8,590 mg/l  
Exposure time: 7 d  
Test Type: static test  
Test substance: Fresh water

M-Factor (Chronic aquatic toxicity) : No data available

**Ingredients:**

methanol:  
Toxicity to bacteria : IC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment  
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Further information:

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No data available

**Persistence and degradability****Ingredients:**

Triethylenediamine:

Biodegradability

: Inoculum: activated sludge  
 Result: Not readily biodegradable.  
 Biodegradation: 7 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B

Inoculum: activated sludge  
 Result: Not readily biodegradable.  
 Biodegradation: ca. 0 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301C

Ethylene glycol:

Biodegradability

: Inoculum: activated sludge  
 Result: Readily biodegradable.  
 Biodegradation: 90 - 100 %  
 Exposure time: 10 d  
 Method: OECD Test Guideline 301A

methanol:

Biodegradability

: Inoculum: Marine water  
 Result: Readily biodegradable.  
 Biodegradation: 69 - 97 %  
 Exposure time: 5 - 20 d

Biochemical Oxygen  
 Demand (BOD)

: No data available

Chemical Oxygen Demand  
 (COD)

: No data available

BOD/COD

: No data available

ThOD

: No data available

BOD/ThOD

: No data available

Dissolved organic carbon  
 (DOC)

: No data available

Physico-chemical  
 removability

: No data available

Stability in water

: No data available

**Ingredients:**

Triethylenediamine:

Photodegradation

: Rate constant: < .00001

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Ethylene glycol:  
Photodegradation : Rate constant: < .00001

methanol:  
Photodegradation : Test Type: Air  
Rate constant: 0.0093  
Degradation (direct photolysis): 50 %

Impact on Sewage  
Treatment : No data available

**Bioaccumulative potential****Ingredients:**

Triethylenediamine:  
Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): < 13  
Exposure time: 42 d  
Test substance: Fresh water  
Remarks: Bioaccumulation is unlikely.  
  
Bioconcentration factor (BCF): 3.16

methanol:  
Bioaccumulation : Species: Leuciscus idus (Golden orfe)  
Bioconcentration factor (BCF): < 10  
Exposure time: 3 d  
Test substance: Fresh water

**Ingredients:**

Triethylenediamine:  
Partition coefficient: n-  
octanol/water : log Pow: -0.49

Ethylene glycol:  
Partition coefficient: n-  
octanol/water : log Pow: -1.36

methanol:  
Partition coefficient: n-  
octanol/water : log Pow: -0.77

**Mobility in soil**

Mobility : No data available

Distribution among  
environmental compartments : No data available

Stability in soil : No data available

**Other adverse effects**

Environmental fate and  
pathways : No data available

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Results of PBT and vPvB assessment : No data available

Endocrine disrupting potential : No data available

Adsorbed organic bound halogens (AOX) : No data available

**Hazardous to the ozone layer**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information - Product : No data available

Global warming potential (GWP) : No data available

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

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****IATA**

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(METHANOL)  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo) : 366

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aircraft)  
 Packing instruction : 355  
 (passenger aircraft)

**IMDG**

UN number : UN 1993  
 Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
 (METHANOL)  
 Class : 3  
 Packing group : III  
 Labels : 3  
 EmS Code : F-E, S-E  
 Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****DOT Classification**

UN/ID/NA number : UN 1993  
 Proper shipping name : FLAMMABLE LIQUIDS, N.O.S.  
 (METHANOL)  
 Class : 3  
 Packing group : III  
 Labels : FLAMMABLE LIQUID  
 ERG Code : 128  
 Marine pollutant : no

**SECTION 15. REGULATORY INFORMATION**

**TSCA - 5(a) Significant New Use Rule List of Chemicals** : Not relevant

**EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
MONOETHYLENE GLYCOL (MEG)	107-21-1	5000	25253
METHANOL	67-56-1	5000	50000

**SARA 311/312 Hazards** : Fire Hazard  
 Acute Health Hazard

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

methanol	67-56-1	10 %
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Ethylene glycol	107-21-1	19.8 %
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**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Ethylene glycol	107-21-1	19.8 %
methanol	67-56-1	10 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Pennsylvania Right To Know**

Triethylenediamine	280-57-9	50 - 70 %
.epsilon.-Caprolactone, oligomeric reaction products with propylidynetrimehanol	37625-56-2	20 - 30 %
Ethylene glycol	107-21-1	10 - 20 %
methanol	67-56-1	10 - 20 %

**California Prop 65**

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

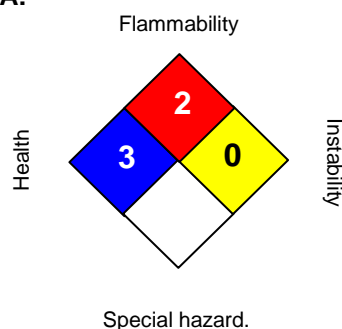
methanol	67-56-1
Ethylene glycol	107-21-1

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

CH INV	: The mixture contains substances listed on the Swiss Inventory
TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

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**SECTION 16. OTHER INFORMATION****Further information****NFPA:****HMIS III:**

<b>HEALTH</b>	<b>3*</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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**SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.**