

## PHASETREAT 15712

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Version : 2 - 2 / USA

Revision Date: 03/26/2020  
Date of printing :04/15/2021

## 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:** PHASETREAT 15712  
**Material number:** 306802

**Primary product use:** Industrial use  
**Chemical family:** demulsifier

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with 29 CFR 1910.1200**

Flammable liquids : Category 2

Skin irritation : Category 2

Serious eye damage : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)

Specific target organ toxicity - repeated exposure : Category 2 (Kidney, Liver, Central nervous system, hearing organs)

Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Central nervous system)

Aspiration hazard : Category 1

**GHS label elements**

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Hazard pictograms	:	   
Signal word	:	Danger
Hazard statements	:	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Kidney, Liver, Central nervous system, hearing organs) through prolonged or repeated exposure. H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.
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. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. 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/ doctor.

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P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
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 + 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)
Xylene	1330-20-7	30 - 50
Toluene	108-88-3	30 - 50
Ethylbenzene	100-41-4	5 - 10
Dodecylbenzene sulphonate-MEA salt (Analogy)	26836-07-7	3 - 5
Hydrocarbons, C10, aromatics, >1% naphthalene	64742-94-5	1 - 5
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	0.1 - 1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**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. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.

In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin

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irritation occurs, seek medical attention.

- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : Get medical attention immediately.  
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).  
No additional symptoms are known.  
The possible risks known are those derived from the labelling (see section 2).
- Notes to physician : Treat symptomatically.

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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water mist  
Alcohol-resistant foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Cool containers/tanks with water spray.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)
- Further information : Wear positive pressure self-contained breathing apparatus and full protective gear. Do not direct a solid stream of water or foam into hot burning pools; this may spread fire, cause frothing, and increase fire intensity. Containers can build up pressure if exposed to heat and/or fire. Vapors may form an explosive mixture with air. Vapors may travel to source of ignition and flash back. Use water spray to keep containers cool.
- 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 : Wear personal protective equipment.  
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

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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 : Do not allow spilt product to enter soil or waterways
- Methods and materials for containment and cleaning up : Take measures to prevent the build up of electrostatic charge. Dispose of in accordance with local regulations.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Observe the general rules of industrial fire protection
- Advice on safe handling : Keep away from sources of ignition - No smoking. Keep tightly closed in a dry, cool and well-ventilated place. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Wash thoroughly after handling. Incompatible with oxidizing agents.
- Further information on storage conditions : Store in original container. Keep container tightly closed.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Xylene	1330-20-7	STEL	150 ppm 655 mg/m <sup>3</sup>	OSHA P0
		TWA	100 ppm 435 mg/m <sup>3</sup>	OSHA P0
Toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m <sup>3</sup>	NIOSH REL
		ST	150 ppm 560 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2

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			(10 minutes)	
		TWA	100 ppm 375 mg/m <sup>3</sup>	OSHA P0
		STEL	150 ppm 560 mg/m <sup>3</sup>	OSHA P0
Ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m <sup>3</sup>	NIOSH REL
		ST	125 ppm 545 mg/m <sup>3</sup>	NIOSH REL
		TWA	100 ppm 435 mg/m <sup>3</sup>	OSHA Z-1
		TWA	100 ppm 435 mg/m <sup>3</sup>	OSHA P0
		STEL	125 ppm 545 mg/m <sup>3</sup>	OSHA P0

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Xylene	1330-20-7	Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
Toluene	108-88-3	Toluene	In blood	Prior to last shift of workweek	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl	Urine	End of shift (As soon as possible)	0.15 g/g creatinine	ACGIH BEI

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		glyoxylic acid		after exposure ceases)		
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**Engineering measures** : A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).

**Personal protective equipment**

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Hand protection

Material : Silver Shield(R) gloves

Remarks : Viton® PVA gloves or gauntlets

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 : Flame retardant protective clothing

Protective measures : Observe the usual precautions for handling chemicals.

Hygiene measures : The usual Industrial Hygiene precautions must be taken during work, in particular: do not drink, eat or smoke during the handling of the product and clean hands and face during work intervals and after work.  
Ensure that eyewash stations and safety showers are close to the workstation location.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : Straw-colored, to, amber

Odour : characteristic

Odour Threshold : no data available

pH : Not applicable

Melting point : > 32 °F / > 0 °C

Boiling point : 219 - 340 °F / 104 - 171 °C

Flash point : < 73 °F / < 23 °C

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Evaporation rate	:	0.8
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	no data available
Upper explosion limit / upper flammability limit	:	7 %(V)
Lower explosion limit / Lower flammability limit	:	0.8 %(V)
Vapour pressure	:	0.027 kPa
Relative vapour density	:	2.1
Density	:	0.87 - 0.91 g/cm <sup>3</sup> (68 °F / 20 °C)
Solubility(ies) Water solubility	:	< 1 mg/l insoluble
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	725 °F / 385 °C
Decomposition temperature	:	no data available
Viscosity Viscosity, dynamic	:	1.38 mPa.s (77 °F / 25 °C)
Viscosity, kinematic	:	no data available
Explosive properties	:	Not explosive
Oxidizing properties	:	no data available
Particle size	:	Not applicable

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Keep away from open flames, hot surfaces and sources of ignition.



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- Incompatible materials : Oxidizing agents  
Strong acids and strong bases
- Hazardous decomposition products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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

Inhalation  
Eye contact  
Skin contact  
Ingestion

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

- Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: 24.67 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: 2,801 mg/kg  
Method: Calculation method

**Components:****Xylene:**

- Acute oral toxicity : LD50 (Rat, male and female): 3523 - > 4000 mg/kg  
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)  
GLP: no
- Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat, male): 27.571 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Directive 67/548/EEC, Annex V, B.2.  
GLP: No information available.  
Assessment: The component/mixture is moderately toxic after short term inhalation.
- Acute dermal toxicity : Other (Rabbit, male): > 4,200 mg/kg  
Method: Other  
GLP: No information available.
- Assessment: The component/mixture is moderately toxic after

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single contact with skin.

**Toluene:**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Symptoms: Vomiting, Stomach/intestinal disorders
- Acute inhalation toxicity : (Rat): > 20 mg/l  
Exposure time: 4 h  
Target Organs: Lungs, Respiratory system, Liver, Kidney,  
Nervous system  
Symptoms: Lung oedema, Breathing difficulties, Vomiting,  
Pain, Dizziness
- Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

**Ethylbenzene:**

- Acute oral toxicity : LD50 (Rat, male and female): ca. 3,500 mg/kg  
Method: Other  
GLP: no
- Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

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

Result: Irritating to skin.

**Components:****Xylene:**

Species: Rabbit  
Method: Other  
Result: Irritating to skin.  
GLP: No information available.

**Toluene:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Skin irritation

**Ethylbenzene:**

Species: Rabbit  
Method: Other  
Result: slight irritation  
GLP: no

**Dodecylbenzene sulphonate-MEA salt (Analogy):**

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Result: Irritating to skin.

**Hydrocarbons, C10, aromatics, >1% naphthalene:**

Result: Repeated exposure may cause skin dryness or cracking.

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

Result: Risk of serious damage to eyes.

**Components:****Xylene:**

Species: rabbit eye  
Result: Irritating to eyes.  
Method: Other  
GLP: No information available.

**Toluene:**

Species: rabbit eye  
Result: slight irritation  
Assessment: No eye irritation  
Method: OECD Test Guideline 405

**Ethylbenzene:**

Species: rabbit eye  
Result: slight irritation  
Method: Other  
GLP: no

**Dodecylbenzene sulphonate-MEA salt (Analogy):**

Result: Risk of serious damage to eyes.

**Benzenesulfonic acid, C10-16-alkyl derivs.:**

Result: Irritating to eyes.

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

Result: non-sensitizing

**Components:****Xylene:**

Test Type: Local lymph node assay (LLNA)  
Exposure routes: Skin contact  
Species: Mouse

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Method: OECD Test Guideline 429

Result: Not a skin sensitizer.

GLP: No information available.

**Toluene:**

Exposure routes: Skin contact

Species: Rat

Result: Does not cause skin sensitisation.

**Ethylbenzene:**

Remarks: not required

**Germ cell mutagenicity****Components:****Xylene:**

Genotoxicity in vitro : Test Type: sister chromatid exchange assay  
Test system: Chinese hamster ovary cells  
Concentration: 5 - 50 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: Other  
Result: negative  
GLP: No information available.

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Concentration: 15,1 - 100,5 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: Directive 84/449/EEC, B.10  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Mouse (male and female)  
Strain: Other  
Application Route: Subcutaneous  
Exposure time: single injection  
Dose: 1 ml/kg  
Method: OECD Test Guideline 478  
Result: negative  
GLP: no

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

**Toluene:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation

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Method: Regulation (EC) No. 440/2008, Annex, B.13/14  
(Ames test)  
Result: negative

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

Genotoxicity in vivo : Test Type: Cytogenetic assay  
Species: Rat  
Method: Other  
Result: negative

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

In vivo tests did not show mutagenic effects

**Ethylbenzene:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Concentration: 75 - 125 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: no

Test Type: In vitro gene mutation study in mammalian cells  
Test system: mouse lymphoma cells  
Concentration: 4,2 - 1060 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Strain: NMRI  
Cell type: Bone marrow  
Application Route: oral (gavage)  
Exposure time: 24 - 48 h  
Dose: 187,5-375-750 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Test Type: unscheduled DNA synthesis assay  
Species: Mouse (male and female)  
Strain: B6C3F1

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Application Route: Inhalation  
Exposure time: 6 h  
Dose: 375-500-750-1000 ppm  
Method: OECD Test Guideline 486  
Result: negative  
GLP: yes

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

**Carcinogenicity****Components:****Xylene:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**Toluene:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Ethylbenzene:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Hydrocarbons, C10, aromatics, >1% naphthalene:**

Carcinogenicity - Assessment : Suspected human carcinogens

**IARC** Listed

**OSHA** Not listed

**NTP** Not listed

**Reproductive toxicity****Components:****Xylene:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Inhalation  
Dose: 25 - 100 - 500 ppm  
Duration of Single Treatment: 6 h  
General Toxicity - Parent: NOAEL:  $\geq$  2.171 mg/l  
General Toxicity F1: NOAEL:  $\geq$  2.171 mg/l  
General Toxicity F2: NOAEL:  $\geq$  2.171 mg/l  
Method: Other

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GLP: No information available.

Remarks: By analogy with a product of similar composition

Effects on foetal development : Test Type: Two-generation study  
Species: Rat  
Application Route: Inhalation  
Dose: 100 - 500 - 1000 ppm  
Developmental Toxicity: NOAEL: 342 mg/kg body weight  
Method: OPPTS 870.3800  
GLP: No information available.  
Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity - Assessment : Classification as "toxic for reproduction" is not justifiable.  
Classification as "teratogenic" is not justifiable.

**Toluene:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

**Ethylbenzene:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: Inhalation  
Dose: 25 - 100 - 500 ppm  
Duration of Single Treatment: 6 h  
General Toxicity - Parent: NOAEL: 2.21 mg/l  
General Toxicity F1: NOAEL: 2.21 mg/l  
General Toxicity F2: NOAEL: 2.21 mg/l  
Method: OECD Test Guideline 416  
GLP: yes

Effects on foetal development : Test Type: Fertility/early embryonic development  
Species: Rat  
Strain: Sprague-Dawley  
Application Route: Inhalation  
Dose: 100-500-1000-2000 ppm  
Duration of Single Treatment: 15 d  
General Toxicity Maternal: 500  
Teratogenicity: 2,000  
Developmental Toxicity: 500  
Method: OECD Test Guideline 414  
GLP: No information available.

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

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**STOT - single exposure****Components:****Xylene:**

Exposure routes: Inhalation

Assessment: May cause respiratory irritation.

**Toluene:**

Assessment: May cause drowsiness or dizziness.

**Ethylbenzene:**

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

**Hydrocarbons, C10, aromatics, >1% naphthalene:**

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure****Components:****Xylene:**

Target Organs: Kidney, Liver, Central nervous system

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

**Toluene:**

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

**Ethylbenzene:**

Target Organs: hearing organs

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

**Repeated dose toxicity****Components:****Xylene:**

Species: Rat, male and female

NOAEL: 250 mg/kg

Application Route: oral (gavage)

Exposure time: 103 w

Number of exposures: Once daily (5 days/week).

Dose: 250 - 500 mg/kg

Group: yes

Method: Other

GLP: No information available.



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Species: Rat, male and female  
NOAEL: 150 mg/kg  
LOAEL: 150 mg/kg  
Application Route: oral (gavage)  
Exposure time: 90 d  
Number of exposures: once daily  
Dose: 150 - 750 - 1500 mg/kg  
Group: yes  
Method: OECD Test Guideline 408  
GLP: No information available.

Species: Rat, male  
NOAEL:  $\geq$  3.515 mg/l  
Application Route: Inhalation  
Exposure time: 13 w  
Number of exposures: 6 hours/day, 5 days/week  
Dose: 781 - 1996 - 3515 mg/m<sup>3</sup>  
Group: yes  
Method: Other  
GLP: No information available.

Application Route: Skin contact  
Remarks: This information is not available.

**Toluene:**

Target Organs: Liver, Nervous system  
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.  
Remarks: no data available

**Ethylbenzene:**

Species: Rat, male and female  
NOAEL: 75 mg/kg  
Application Route: oral (gavage)  
Exposure time: 3 m  
Number of exposures: twice daily  
Dose: 75 - 250 - 750 mg/kg  
Group: yes  
Method: OECD Test Guideline 408  
GLP: yes

Species: Rat, male and female  
NOAEL: 0.33 - 1.1 mg/l  
Application Route: Inhalation  
Exposure time: 2 a  
Number of exposures: 6 hours/day, 5 days/week  
Dose: 75 - 250 - 750 ppm  
Group: yes  
Method: OECD Test Guideline 453  
GLP: yes

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Application Route: Skin contact  
Remarks: This information is not available.

**Aspiration toxicity****Components:****Xylene:**

May be fatal if swallowed and enters airways.

**Toluene:**

May be fatal if swallowed and enters airways.

**Ethylbenzene:**

May be fatal if swallowed and enters airways.

**Hydrocarbons, C10, aromatics, >1% naphthalene:**

May be fatal if swallowed and enters airways.

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

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

**Further information****Components:****Toluene:**

Remarks: Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Ingestion or inhalation of high concentrations may cause injuries to gastrointestinal tract, liver, kidneys and central nervous system.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Poisoning by resorption through skin possible.

Has a degreasing effect on the skin.

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

Toxicity to fish :  
Remarks: no data available

Toxicity to daphnia and other :

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aquatic invertebrates                      Remarks: no data available

Toxicity to algae/aquatic plants                      :                      Remarks: no data available

**Components:****Xylene:**

Toxicity to fish                      :                      LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: No information available.  
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates                      :                      EC50 (Daphnia magna (Water flea)): ca. 1 mg/l  
Exposure time: 24 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: No information available.  
Remarks: By analogy with a product of similar composition

Toxicity to algae/aquatic plants                      :                      EC50 (Pseudokirchneriella subcapitata (microalgae)): 4.36 mg/l  
End point: Growth rate  
Exposure time: 73 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: By analogy with a product of similar composition

EC50 (Pseudokirchneriella subcapitata (green algae)): 2.2 mg/l  
End point: Biomass  
Exposure time: 73 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: By analogy with a product of similar composition

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.44 mg/l  
Exposure time: 73 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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- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l  
Exposure time: 56 d  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: Other  
GLP: no
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Freshwater insects): 0.96 - 1.17 mg/l  
End point: Reproduction rate  
Exposure time: 7 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: Other  
GLP: no  
Remarks: By analogy with a product of similar composition
- Toxicity to microorganisms : EC50 (Nitrosomonas sp.): 96 mg/l  
Exposure time: 24 h  
Test Type: static test  
Analytical monitoring: no  
Method: Other  
GLP: No information available.  
Remarks: By analogy with a product of similar composition  
The details of the toxic effect relate to the nominal concentration.
- EC50 (activated sludge, domestic): > 157 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  
Remarks: By analogy with a product of similar composition  
The details of the toxic effect relate to the nominal concentration.
- Toxicity to soil dwelling organisms : Remarks: Not applicable
- Plant toxicity : EC50: ca. > 1 mg/kg  
>1 milligram per kilogram  
Exposure time: 14 d  
End point: Growth  
Species: Lactuca sativa (lettuce)  
Analytical monitoring: yes  
Method: OECD Guide-line 208  
GLP: No information available.  
Remarks: By analogy with a product of similar composition
- Sediment toxicity : Remarks: Not applicable

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Toxicity to terrestrial organisms : Remarks: Not applicable

**Ecotoxicology Assessment**

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

**Toluene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 3.78 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: EPA

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 134 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: Other

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus kisutch (coho salmon)): 1.39 mg/l  
Exposure time: 40 d  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia spec.): 0.74 mg/l  
End point: Reproduction rate  
Exposure time: 7 d  
Test Type: semi-static test  
Method: Other

Toxicity to microorganisms : NOEC (Pseudomonas putida): 29 mg/l  
Exposure time: 16 h

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

**Ethylbenzene:**

Toxicity to fish : LC50 (Menidia menidia (Atlantic silverside)): 5.1 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes

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Method: Other

GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l

Exposure time: 96 h

Test Type: flow-through test

Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates :

EC50 (Daphnia magna (Water flea)): 1.8 - 2.4 mg/l

Exposure time: 48 h

Test Type: static test

Analytical monitoring: yes

Method: EPA

GLP: no

LC50 (Mysidopsis bahia (opossum shrimp)): 2.6 mg/l

Exposure time: 96 h

Test Type: flow-through test

Analytical monitoring: yes

Method: EPA

GLP: yes

Toxicity to algae/aquatic plants :

EC50 (Pseudokirchneriella subcapitata (microalgae)): 3.6 mg/l

End point: Biomass

Exposure time: 96 h

Test Type: static test

Analytical monitoring: yes

Method: EPA

GLP: yes

EC50 (Skeletonema costatum (marine diatom)): 7.7 mg/l

End point: Biomass

Exposure time: 96 h

Test Type: static test

Analytical monitoring: yes

Method: EPA

GLP: yes

Toxicity to fish (Chronic toxicity) :

Chronic Toxicity Value (Fish): 1.13 mg/l

Exposure time: 30 d

Analytical monitoring: no

Method: Expert judgement

GLP: no

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :

NOEC (Ceriodaphnia spec.): 0.96 mg/l

End point: Reproduction rate

Exposure time: 7 d

Test Type: semi-static test

Analytical monitoring: yes

Method: Other

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GLP: no

- Toxicity to microorganisms : EC50 (Nitrosomonas sp.): 96 mg/l  
Exposure time: 24 h  
Test Type: static test  
Analytical monitoring: no  
Method: Other  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 0.047 mg/cm2  
Exposure time: 48 h  
End point: mortality  
Method: OECD Test Guideline 207  
GLP: no
- Plant toxicity : Remarks: Not applicable
- Sediment toxicity : Remarks: Not applicable
- Toxicity to terrestrial organisms : Remarks: Not applicable

**Ecotoxicology Assessment**

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

**Dodecylbenzene sulphonate-MEA salt (Analogy):****Ecotoxicology Assessment**

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

**Hydrocarbons, C10, aromatics, >1% naphthalene:**

- Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - < 3 mg/l  
End point: Biomass  
Exposure time: 72 h  
Test Type: static test

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Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): 0.487 mg/l  
Exposure time: 28 d  
Method: Other  
Remarks: Estimated value

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 0.851 mg/l  
Exposure time: 21 d  
Method: Other

**Ecotoxicology Assessment**

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

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

Biodegradability : Remarks: no data available

**Components:****Xylene:**

Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 41 mg/l  
BOD in % of theoretical OD  
Result: Readily biodegradable.  
Biodegradation: 87.8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

**Toluene:**

Biodegradability : aerobic  
Result: Readily biodegradable.  
Biodegradation: 86 %  
Exposure time: 20 d

Physico-chemical removability : Remarks: Biodegradable

**Ethylbenzene:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 22 mg/l  
Dissolved organic carbon (DOC)  
Result: Readily biodegradable.  
Biodegradation: 70 - 80 %  
Exposure time: 28 d



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Method: ISO/DIS 14853

GLP: yes

Photodegradation : Test Type: air  
Concentration: 500000 molecule/cm<sup>3</sup>  
Rate constant: 7,1E-12 cm<sup>3</sup>/(molecule\*sec)  
Degradation (indirect photolysis): 50 % Degradation half life:  
2.3 d  
GLP: No information available.

**Hydrocarbons, C10, aromatics, >1% naphthalene:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Inherently biodegradable.  
Method: OECD Test Guideline 301F

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: no data available

**Components:****Xylene:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 7.2 - 25.9  
Exposure time: 56 d  
Concentration: 0.36 - 0.74 mg/l  
Method: Other  
GLP: No information available.

**Toluene:**

Bioaccumulation : Bioconcentration factor (BCF): 90  
Remarks: Does not bioaccumulate.

**Ethylbenzene:**

Bioaccumulation : Species: Oncorhynchus kisutch (coho salmon)  
Bioconcentration factor (BCF): 1  
Exposure time: 42 d  
Concentration: 0.005 mg/l  
Method: Other  
GLP: No information available.

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: no data available

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**Components:****Xylene:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: water - soil  
log Koc: 2.73  
Method: OECD Test Guideline 121

**Toluene:**

Distribution among environmental compartments : Remarks: The product evaporates readily.

**Ethylbenzene:**

Distribution among environmental compartments : Adsorption/Soil  
log Koc: 2.71  
Method: estimated

**Other adverse effects****Product:**

Results of PBT and vPvB assessment : Remarks: no data available

Additional ecological information : No data is available on the product itself.

**Components:****Xylene:**

Environmental fate and pathways : not available

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

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

**Toluene:**

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.

**Ethylbenzene:**

Environmental fate and pathways : not available

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- Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.
- Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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

- RCRA - Resource Conservation and Recovery Authorization Act : This material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations
- Waste Code : D001
- Waste from residues : Consult local, state, and federal regulations. For disposal, this material is a flammable hazardous waste under RCRA.
- Contaminated packaging : Contaminated packaging material should be treated equivalent to residual chemicals. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

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

- UN/NA-number: UN 1993  
Proper shipping name: Flammable liquids, n.o.s.  
Technical Name: Xylene  
TOLUENE
- Primary hazard class: 3  
Packing group: II  
Reportable Quantity: 90.000 kg Xylene  
908.000 kg TOLUENE
- Emergency Response Guide: 128

**IATA**

- UN/ID number: UN 1993  
Proper shipping name: Flammable liquid, n.o.s.  
Hazard inducer(s): Xylene  
TOLUENE

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Primary risk: 3  
 Packing group: II  
 Remarks: Shipment permitted

**IMDG**

UN no.: UN 1993  
 Proper shipping name: Flammable liquid, n.o.s.  
 Hazard inducer(s): Xylene  
 TOLUENE

Primary risk: 3  
 Packing group: II  
 EmS: F-E S-E

**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)
Xylene	1330-20-7	100	277

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

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulphuric acid	7664-93-9	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Carcinogenicity  
 Skin corrosion or irritation  
 Aspiration hazard  
 Serious eye damage or eye irritation  
 Specific target organ toxicity (single or repeated exposure)  
 Flammable (gases, aerosols, liquids, or solids)

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

Xylene	1330-20-7	30 - 50 %
Toluene	108-88-3	30 - 50 %
Ethylbenzene	100-41-4	5 - 10 %

**Clean Water Act**

Contains priority pollutants toluene and ethylbenzene at greater than 0.1%.

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

TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory

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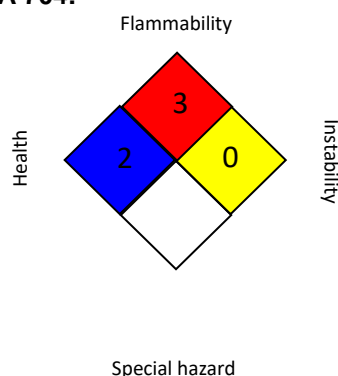
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exemption., All components are compliant with the TSCA Inventory Notification (Active) rule.

## 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
OSHA Z-2	:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
ACGIH / TWA	:	8-hour, time-weighted average
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 Z-1 / TWA	:	8-hour time weighted average
OSHA Z-2 / TWA	:	8-hour time weighted average
OSHA Z-2 / CEIL	:	Acceptable ceiling concentration
OSHA Z-2 / Peak	:	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift

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 -

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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 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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# SAFETY DATA SHEET



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information before handling any of these products. For additional information, please contact Clariant.

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