TERSPERSE® 2280

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/23/2018	400001015115	Date of first issue: 07/23/2018

SECTION 1. IDENTIFICATION

Product name : TERSPERSE® 2280

Manufacturer or supplier's details

Company name of supplier : Huntsman International LLC
Address : P.O. Box 4980
The Woodlands,
TX 77387
United States of America (USA)
Telephone : TechInfo: (281) 719-7780

E-mail address of person responsible for the SDS : MSDS@huntsman.com

Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Surfactant

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Carcinogenicity : Category 2

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

Short-term (acute) aquatic hazard : Category 2

Chronic aquatic toxicity : Category 2

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H227 Combustible liquid.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.

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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
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.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
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.
P391 Collect spillage.
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 facility in accordance with local, regional, national and international regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Poly(oxy-1,2-ethanediyl),a-sulfo-w-[2,4,6-tris(1-phenylethyl) phenoxy]-, amonium salt	ACCN# 98921	25 - 30
docusate sodium	577-11-7	10 - 20
Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts	68584-23-6	10 - 20
Solvent naphtha (petroleum), heavy arom.	64742-94-5	10 - 20
2-ethylhexan-1-ol	104-76-7	10 - 20
Solvent naphtha (petroleum), light arom.	64742-95-6	5 - 10
Tristyrylphenol ethoxylates	104376-75-2	5 - 10
2-methylnaphthalene	91-57-6	2.5 - 5
1,2,4-trimethylbenzene	95-63-6	2.5 - 5
naphthalene	91-20-3	1 - 2.5
1-methylnaphthalene	90-12-0	1 - 5
mesitylene	108-67-8	1 - 2.5
cumene	98-82-8	0.1 - 0.25

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Treat symptomatically.
Get medical attention if symptoms occur.

If inhaled : Consult a physician after significant exposure.
If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

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.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known
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 firefighters	:	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. Refer to protective measures listed in sections 7 and 8. Beware of vapours accumulating to form explosive concentrations. Vapours 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	:	Contain spillage, and then collect with non-combustible

containment and cleaning up	absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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 vapours). Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapours/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	:	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.
Materials to avoid	:	For incompatible materials please refer to Section 10 of this SDS.
Further information on storage stability	:	Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Solvent naphtha (petroleum), heavy arom.	64742-94-5	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3 (total hydrocarbon	ACGIH

			vapor)	
2-methylnaphthalene	91-57-6	TWA	0.5 ppm	ACGIH
1,2,4-trimethylbenzene	95-63-6	TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m3	OSHA P0
naphthalene	91-20-3	TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm	ACGIH
1-methylnaphthalene	90-12-0	TWA	0.5 ppm	ACGIH
mesitylene	108-67-8	TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m3	OSHA P0
cumene	98-82-8	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	OSHA Z-1

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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 : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Colour : yellow

Odour : No data is available on the product itself.

Odour Threshold : No data is available on the product itself.

pH : 6

Melting point : < 32 °F / < 0 °C

Boiling point/boiling range : Not applicable

Flash point : > 140 - < 199 °F / > 60 - < 93 °C

		Method: closed cup
Evaporation rate	:	No data is available on the product itself.
Flammability (solid, gas)	:	No data is available on the product itself.
Flammability (liquids)	:	No data is available on the product itself.
Upper explosion limit / Upper flammability limit	:	No data is available on the product itself.
Lower explosion limit / Lower flammability limit	:	No data is available on the product itself.
Vapour pressure	:	No data is available on the product itself.
Relative vapour density	:	No data is available on the product itself.
Relative density	:	1.053 (77 °F / 25 °C)
Density	:	1.053 g/cm3 (77 °F / 25 °C)
Solubility(ies)		
Water solubility	:	No data is available on the product itself.
Solubility in other solvents	:	Solvent: Methanol Description: partly soluble
Partition coefficient: n-octanol/water	:	No data is available on the product itself.
Auto-ignition temperature	:	No data is available on the product itself.
Thermal decomposition	:	No data is available on the product itself.
Self-Accelerating decomposition temperature (SADT)	:	No data is available on the product itself.
Viscosity		
Viscosity, dynamic	:	420 mPa.s (104 °F / 40 °C)
Viscosity, kinematic	:	ca. 400 mm2/s (104 °F / 40 °C) Method: Calculation method
Explosive properties	:	No data is available on the product itself.
Oxidizing properties	:	No data is available on the product itself.
Particle size	:	No data is available on the product itself.

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	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

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 : 3,269 mg/kg
Method: Calculation method

Acute inhalation toxicity - Product : Acute toxicity estimate: 71 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity - Product : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

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

Skin corrosion/irritation

Components:

docusate sodium**:**
Species: Rabbit
Method: OECD Test Guideline 404
Result: Severe skin irritation

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**
Species: Rabbit
Assessment: Irritating to skin.
Method: OECD Test Guideline 404
Result: Irritating to skin.

Solvent naphtha (petroleum), heavy arom.**:**
Method: OECD Test Guideline 404
Result: No skin irritation

2-ethylhexan-1-ol**:**
Species: Rabbit
Assessment: Severe skin irritation
Method: OECD Test Guideline 404
Result: Irritating to skin.

1,2,4-trimethylbenzene**:**
Species: Rabbit
Assessment: Irritant
Result: Irritating to skin.

naphthalene**:**
Species: Rabbit
Method: OECD Test Guideline 404
Remarks: slight irritation

mesitylene**:**
Species: Rabbit
Result: Skin irritation

cumene**:**
Species: Rabbit
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation

Serious eye damage/eye irritation

Components:

docusate sodium**:**
Species: Rabbit
Result: Irreversible effects on the eye
Method: OECD Test Guideline 405

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**
Species: Rabbit
Result: Irreversible effects on the eye
Assessment: Corrosive
Method: OECD Test Guideline 405

Solvent naphtha (petroleum), heavy arom.**:**
Result: No eye irritation
Method: OECD Test Guideline 405

2-ethylhexan-1-ol**:**
Species: Rabbit
Result: Irritating to eyes.
Assessment: Irritant
Method: OECD Test Guideline 405

1,2,4-trimethylbenzene**:**
Species: Rabbit
Result: Irritation to eyes, reversing within 7 days
Assessment: Irritating to eyes.
Method: OECD Test Guideline 405

naphthalene**:**
Species: Rabbit
Method: OECD Test Guideline 405
Remarks: slight irritation

mesitylene**:**
Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

cumene**:**
Species: Rabbit
Result: No eye irritation
Assessment: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:

docusate sodium**:**
Exposure routes: Skin
Species: Humans
Result: Does not cause skin sensitisation.

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

Solvent naphtha (petroleum), heavy arom.**:**
Exposure routes: Skin
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.

2-ethylhexan-1-ol**:**
Exposure routes: Skin
Species: Humans
Result: Does not cause skin sensitisation.

Solvent naphtha (petroleum), light arom.**:**
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

1,2,4-trimethylbenzene**:**
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

naphthalene**:**
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

mesitylene**:**
Exposure routes: Skin
Species: Guinea pig

Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

cumene**:**
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

Assessment: No data available

Germ cell mutagenicity

Components:

docusate sodium**:**
Genotoxicity in vitro : Concentration: 0 - 2500 ug/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Concentration: 0 - 300 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**
Genotoxicity in vitro : Concentration: 8 - 5000 ug/plate
Metabolic activation: with and without metabolic activation
Method: Directive 67/548/EEC, Annex, B.13/14
Result: negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

2-ethylhexan-1-ol**:**
Genotoxicity in vitro : Concentration: .018 - .24 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Concentration: 1 - 1000 ug/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Concentration: 50 - 500 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Solvent naphtha (petroleum), light arom.**:**
Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 479
Result: negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

1,2,4-trimethylbenzene**:**
Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

naphthalene**:**
Genotoxicity in vitro : Concentration: 30 µg/L
Metabolic activation: Metabolic activation
Method: OECD Test Guideline 473
Result: positive

Concentration: 40 µg/L
Metabolic activation: negative
Method: OECD Test Guideline 476
Result: negative

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

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

Metabolic activation: negative
Method: OECD Test Guideline 482
Result: negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Components:

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**
Genotoxicity in vivo : Application Route: Oral
Exposure time: 72 h
Dose: 1122 mg/kg

Method: OECD Test Guideline 474
Result: negative

Solvent naphtha (petroleum), light arom.:
Genotoxicity in vivo : Application Route: Inhalation
Exposure time: 5 d
Method: OECD Test Guideline 475
Result: negative

1,2,4-trimethylbenzene:
Genotoxicity in vivo : Application Route: Intraperitoneal injection
Dose: 4000 mg/kg
Method: OECD Test Guideline 474
Result: negative

Application Route: Intraperitoneal injection
Dose: 900 mg/kg
Method: OPPTS 870.5915
Result: positive

naphthalene:
Genotoxicity in vivo : Cell type: Somatic
Application Route: Oral
Exposure time: 1 d
Dose: 1600 mg/kg
Method: OECD Test Guideline 486
Result: negative

Application Route: Intraperitoneal injection
Dose: 5000 mg/kg
Method: OECD Test Guideline 474
Result: negative

mesitylene:
Genotoxicity in vivo : Application Route: Intraperitoneal injection
Dose: 4000 mg/kg
Method: OECD Test Guideline 474
Result: negative

Application Route: Intraperitoneal injection
Dose: 900 mg/kg
Method: OPPTS 870.5915
Result: positive

cumene:
Genotoxicity in vivo : Application Route: Inhalation
Exposure time: 14 Weeks
Dose: 62.5 - 1000 ppm
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Components:

docusate sodium:
Species: Rat, male

Application Route: Oral
Exposure time: 24 month(s)
Dose: 10000 ppm
Frequency of Treatment: 7 daily
Method: OECD Test Guideline 451
Result: negative

2-ethylhexan-1-ol**:**
Species: Rat, male and female
Application Route: Oral
Exposure time: 24 month(s)
Dose: 500 mg/kg
Frequency of Treatment: 5 daily
Method: OECD Test Guideline 453
Result: negative
Target Organs: Gastro-intestinal system, Brain, Liver, Kidney, Testes

naphthalene**:**
Species: Rat, male and female
Application Route: Inhalation
Exposure time: 105 weeks
Dose: 10 ppm
Frequency of Treatment: 6 daily
Result: positive
Target Organs: Nasal inner lining

Components:

Solvent naphtha (petroleum), heavy arom.**:**

Carcinogenicity - Assessment	: Limited evidence of carcinogenicity in animal studies
naphthalene**:**	: Suspected human carcinogens
IARC	Group 2B: Possibly carcinogenic to humans naphthalene Group 2B: Possibly carcinogenic to humans cumene
ACGIH	Confirmed animal carcinogen with unknown relevance to humans Solvent naphtha (petroleum), heavy arom. Solvent naphtha (petroleum), light arom. naphthalene
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	Reasonably anticipated to be a human carcinogen naphthalene Reasonably anticipated to be a human carcinogen cumene

Reproductive toxicity

Components:

docusate sodium**:**

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 416
Result: negative

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**

Species: Rat, male and female
Application Route: Oral
Result: negative

Solvent naphtha (petroleum), light arom.**:**

Species: Rat, male and female
Application Route: Inhalation
Result: No effects on fertility and early embryonic development were detected.

mesitylene**:**

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

cumene**:**

Species: Rat, male and female
Application Route: Inhalation
Method: OECD Test Guideline 413

Components:

docusate sodium**:**

Effects on foetal development : Species: Rat, female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level: 750 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic effects

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**

Species: Rat, female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level: 300 mg/kg body weight
Result: No teratogenic effects

Species: Rat, female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level: 2 mg/kg body weight
Result: No teratogenic effects

2-ethylhexan-1-ol**:**

Species: Rat, female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level:

130 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic effects

Solvent naphtha (petroleum), light arom.:
Species: Rat, female
Application Route: Inhalation
General Toxicity Maternal: No observed adverse effect level: 100 ppm
Result: No teratogenic effects

1,2,4-trimethylbenzene:
Species: Rat, female
Application Route: Inhalation
General Toxicity Maternal: No observed adverse effect level: 1,470 mg/m³
Method: OECD Test Guideline 414
Result: No teratogenic effects

naphthalene:
Species: Rat, female
Application Route: Oral
General Toxicity Maternal: Lowest observed adverse effect level: < 50 mg/kg body weight
Method: OECD Test Guideline 414
Result: Teratogenic effects

mesitylene:
Species: Rat, female
Application Route: Inhalation
General Toxicity Maternal: No observed adverse effect level: 492 mg/m³
Method: OECD Test Guideline 414
Result: No teratogenic effects

cumene:
Species: Rat
Application Route: Inhalation
General Toxicity Maternal: No observed adverse effect level: 100 ppm
Method: OECD Test Guideline 414
Result: No teratogenic effects

Species: Rabbit
Application Route: Inhalation
General Toxicity Maternal: Lowest observed adverse effect level: 500 ppm
Method: OECD Test Guideline 414
Result: No teratogenic effects

Reproductive toxicity - Assessment : No data available

STOT - single exposure

Components:

Solvent naphtha (petroleum), heavy arom.**:**
Target Organs: Central nervous system
Assessment: May cause drowsiness or dizziness.

2-ethylhexan-1-ol**:**
Exposure routes: Inhalation
Target Organs: Respiratory system
Assessment: May cause respiratory irritation.

Solvent naphtha (petroleum), light arom.**:**
Exposure routes: inhalation (vapour)
Target Organs: Respiratory Tract, Narcotic effects
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

1,2,4-trimethylbenzene**:**
Exposure routes: inhalation (vapour)
Target Organs: Respiratory Tract
Assessment: May cause respiratory irritation.

mesitylene**:**
Exposure routes: Inhalation
Target Organs: Respiratory Tract
Assessment: May cause respiratory irritation.

cumene**:**
Target Organs: Respiratory Tract
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

docusate sodium**:**
Species: Rat, male and female
NOAEL: 750 mg/kg
Application Route: Ingestion
Exposure time: 2,160 h
Method: Subchronic toxicity

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**
Species: Rat, male and female
NOAEL: 125 mg/kg/d
Application Route: Ingestion

Exposure time: 672 h
Number of exposures: 7 d
Method: Subacute toxicity

Species: Rat, male and female
NOAEL: 85 mg/kg/d
Application Route: Ingestion
Exposure time: 6,480 h
Number of exposures: 7 d
Method: Subchronic toxicity

2-ethylhexan-1-ol**:**
Species: Rat, male and female
Test atmosphere: vapour
Exposure time: 2,160 h
Number of exposures: 5 d
Method: OECD Test Guideline 413

Species: Rat
NOEL: 125 mg/kg
Application Route: Ingestion
Exposure time: 13 Weeks
Number of exposures: 5 d
Method: Subchronic toxicity

Solvent naphtha (petroleum), light arom.**:**
Species: Rat
LOEC: 353 - 1537 ppm
Test atmosphere: vapour
Exposure time: 13 Weeks

1,2,4-trimethylbenzene**:**
Species: Rat, male and female
NOAEL: 600 mg/kg
Application Route: Ingestion
Exposure time: 2,160 h
Method: Subchronic toxicity

mesitylene**:**
Species: Rat, male and female
NOEC: 600 mg/kg, 1800 mg/m3
Application Route: Ingestion
Test atmosphere: vapour
Exposure time: 8,640 h
Number of exposures: 6 h
Method: OECD Test Guideline 452

cumene**:**
Species: Mouse, male and female
NOEC: 125 ppm
Test atmosphere: vapour

Exposure time: 14 Weeks
Number of exposures: 5 d
Method: OECD Test Guideline 413

Species: Rat, male and female
NOEC: 125 ppm
Test atmosphere: vapour
Exposure time: 14 Weeks
Number of exposures: 5 d
Method: OECD Test Guideline 413

Species: Rat, male
NOEL: > 535.8 mg/kg/d
Application Route: Ingestion
Exposure time: 672 h
Method: Subchronic toxicity

Repeated dose toxicity - Assessment : No data available

Aspiration toxicity

Components:

Solvent naphtha (petroleum), heavy arom.**:**
May be fatal if swallowed and enters airways.

Solvent naphtha (petroleum), light arom.**:**
May be fatal if swallowed and enters airways.

mesitylene**:**
May be fatal if swallowed and enters airways.

cumene**:**
May be fatal if swallowed and enters airways.

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: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Poly(oxy-1,2-ethanediyl),a-sulfo-w-[2,4,6-tris(1-phenylethyl) phenoxy]-, amonium salt**:**

Toxicity to fish : LC50: 33 mg/l
Exposure time: 96 h

docusate sodium**:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 49 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.1.

LC50 (Pimephales promelas (fathead minnow)): 17.3 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: Fish Acute Toxicity Test

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**

Toxicity to fish : LC50: > 1 - < 10 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Solvent naphtha (petroleum), heavy arom.**:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l
Exposure time: 96 h

2-ethylhexan-1-ol**:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17.1 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.1.

Solvent naphtha (petroleum), light arom.**:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 9.22 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

1,2,4-trimethylbenzene:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 7.72 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water

naphthalene:
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.6 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water
Method: OECD Test Guideline 203

LC50 (Other): 0.96 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: No information available.
Remarks: Very toxic to aquatic organisms.

mesitylene:
Toxicity to fish : LC50 (Carassius auratus (goldfish)): 12.52 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water

cumene:
Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 4.7 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Marine water
Method: Fish Acute Toxicity Test

LC50 (Oncorhynchus mykiss (rainbow trout)): 4.8 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water
Method: Fish Acute Toxicity Test

Components:

Poly(oxy-1,2-ethanediyl),a-sulfo-w-[2,4,6-tris(1-phenylethyl) phenoxy]-, amonium salt:
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 24 mg/l
Exposure time: 48 h

docusate sodium:
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6.6 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.2.

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Solvent naphtha (petroleum), heavy arom.:
Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l
Exposure time: 48 h

2-ethylhexan-1-ol:
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.2.

Solvent naphtha (petroleum), light arom.:
Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3.2 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

1,2,4-trimethylbenzene:
Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 3.6 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

naphthalene:
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.16 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

mesitylene:
Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 6 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

cumene:
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.14 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Components:

docusate sodium:
Toxicity to algae : EC50: > 100 mg/l
Exposure time: 96 h
Remarks: The data is estimated based on the component aquatic toxicity classification.

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 29 mg/l
Exposure time: 96 h
Test Type: static test

Solvent naphtha (petroleum), heavy arom.**:**

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (algae)): 11 mg/l
Exposure time: 72 h

NOELR (Pseudokirchneriella subcapitata (algae)): 2.5 mg/l
Exposure time: 72 h

2-ethylhexan-1-ol**:**

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 11.5 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.3.

IC50 (Desmodesmus subspicatus (green algae)): 11.5 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.3.

Solvent naphtha (petroleum), light arom.**:**

Toxicity to algae : ErL50 (Selenastrum capricornutum (green algae)): 7.9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

cumene**:**

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 2.01 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.3.

Components:

naphthalene**:**

M-Factor (Acute aquatic toxicity) : 1

Components:

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l
Exposure time: 72 d
Test Type: flow-through test

cumene**:**

Toxicity to fish (Chronic toxicity) : NOEC (Brachydanio rerio (zebrafish)): 0.38 mg/l
Exposure time: 28 d
Test Type: static test
Test substance: Fresh water

Components:

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 1.18 mg/l Exposure time: 21 d Test Type: flow-through test Test substance: Fresh water

naphthalene:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	0.59 mg/l Exposure time: 125 d Test Type: static test Test substance: Fresh water

mesitylene:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.4 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water

cumene:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.35 mg/l Exposure time: 21 d Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 211

Components:

naphthalene:

M-Factor (Chronic aquatic toxicity)	:	1

Components:

docusate sodium:

Toxicity to microorganisms	:	EC50 (Pseudomonas putida): 164 mg/l Exposure time: 16 h Test Type: static test Test substance: Fresh water Method: DIN 38412

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts:

Toxicity to microorganisms	:	EC50 (activated sludge): 550 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

cumene:

Toxicity to microorganisms	:	EC50 (activated sludge): > 2,000 mg/l Exposure time: 3 h Test Type: static test Test substance: Fresh water Method: Directive 67/548/EEC, Annex V, C.11

Toxicity to soil dwelling organisms	:	No data available

Components:

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts:
Plant toxicity : EC50: 142 mg/kg
Exposure time: 336 h
Test substance: Synthetic
Method: Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test

cumene:
Plant toxicity : EC50: > 1,000 mg/kg
Exposure time: 504 h
Method: Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test

NOEC: >= 1,000 mg/kg
Exposure time: 504 h
Method: Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment

Components:

Poly(oxy-1,2-ethanediyl),a-sulfo-w-[2,4,6-tris(1-phenylethyl) phenoxy]-, amonium salt:
Acute aquatic toxicity : Harmful to aquatic life.

2-methylnaphthalene:
Acute aquatic toxicity : Toxic to aquatic life.

mesitylene:
Acute aquatic toxicity : Toxic to aquatic life.

Components:

Poly(oxy-1,2-ethanediyl),a-sulfo-w-[2,4,6-tris(1-phenylethyl) phenoxy]-, amonium salt:
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts:
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Solvent naphtha (petroleum), light arom.:
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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

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

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

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

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Persistence and degradability

Components:

docusate sodium**:**
Biodegradability : Inoculum: activated sludge
Concentration: 10 mg/l
Result: Readily biodegradable.
Biodegradation: 91.2 %
Exposure time: 28 d
Method: ISO 14593

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts**:**
Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Exposure time: 28 d
Method: OECD Test Guideline 301B

Inoculum: Soil
Concentration: .2 - 20
Result: Readily biodegradable.
Biodegradation: 70 - 99 %
Exposure time: 122 d

Solvent naphtha (petroleum), heavy arom.**:**
Biodegradability : Result: Not biodegradable
Biodegradation: 57.95 %
Exposure time: 28 d

2-ethylhexan-1-ol**:**
Biodegradability : Concentration: 100 mg/l
Result: Readily biodegradable.
Biodegradation: 79 - 99 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Solvent naphtha (petroleum), light arom.**:**
Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d

Tristyrylphenol ethoxylates**:**
Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 70 %
Exposure time: 28 d
Method: AS Method, other

1,2,4-trimethylbenzene**:**
Biodegradability : Inoculum: activated sludge

Concentration: 3 mg/l
Result: Not readily biodegradable.
Biodegradation: 4 - 18 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

naphthalene:
Biodegradability : Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 28 d
Method: Inherent Biodegradability: Modified MITI Test (II)

mesitylene:
Biodegradability : Inoculum: activated sludge
Concentration: 500 mg/l
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 7.5 d

cumene:
Biodegradability : Result: Not biodegradable
Biodegradation: 6 %
Exposure time: 187 d

Inoculum: Soil
Concentration: 2 mg/l
Biodegradation: ca. 47 %
Exposure time: 45 d

Inoculum: Domestic sewage
Concentration: 10 mg/l
Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 20 d

Components:

Solvent naphtha (petroleum), light arom.:
Biochemical Oxygen Demand (BOD) : 190 mg/l

Components:

Solvent naphtha (petroleum), light arom.:
Chemical Oxygen Demand (COD) : 440 mg/l
BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical : No data available

removability

Components:

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts:

Stability in water : Degradation half life(DT50): > 1 yr (122 °F / 50 °C) pH: 7.4
Method: OECD Test Guideline 111
Remarks: Fresh water

cumene:

Stability in water : Method: No information available.
GLP: No information available.
Remarks: Not applicable

Components:

cumene:

Photodegradation : Test Type: Water
Degradation (direct photolysis): 50 %

Test Type: Air
Rate constant: < .00001
Degradation (direct photolysis): 50 %

Impact on Sewage Treatment : No data available

Bioaccumulative potential

Components:

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 2 - 1,000
Exposure time: 8 d
Test substance: Fresh water
Method: flow-through test
Remarks: Bioaccumulation is unlikely.

2-ethylhexan-1-ol:

Bioaccumulation : Bioconcentration factor (BCF): 25.33
Remarks: Bioaccumulation is unlikely.

1,2,4-trimethylbenzene:

Bioaccumulation : Bioconcentration factor (BCF): 132

Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 243
Remarks: Bioaccumulation is unlikely.

mesitylene:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 161
Remarks: Bioaccumulation is unlikely.

Bioconcentration factor (BCF): 132

Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 243
Remarks: Bioaccumulation is unlikely.

cumene:
Bioaccumulation : Bioconcentration factor (BCF): 94.69
Remarks: Bioaccumulation is unlikely.

Components:

Poly(oxy-1,2-ethanediyl),a-sulfo-w-[2,4,6-tris(1-phenylethyl) phenoxy]-, amonium salt:
Partition coefficient: n-octanol/water : log Pow: 0.748

docusate sodium:
Partition coefficient: n-octanol/water : log Pow: 1.998 (68 °F / 20 °C)
Method: Partition coefficient

Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts:
Partition coefficient: n-octanol/water : log Pow: 2.89 (68 °F / 20 °C)
Method: Partition coefficient

2-ethylhexan-1-ol:
Partition coefficient: n-octanol/water : log Pow: 2.9 (77 °F / 25 °C)
pH: 7
Method: OECD Test Guideline 117

1,2,4-trimethylbenzene:
Partition coefficient: n-octanol/water : log Pow: 3.63

naphthalene:
Partition coefficient: n-octanol/water : log Pow: 3.4 (77 °F / 25 °C)
pH: 7.5
Method: OECD Test Guideline 107

mesitylene:
Partition coefficient: n-octanol/water : log Pow: 3.42

cumene:
Partition coefficient: n-octanol/water : log Pow: 3.55 (73 °F / 23 °C)
Method: OECD Test Guideline 107

Mobility in soil

Mobility : No data available

Components:

docusate sodium:
Distribution among environmental compartments : Koc: 1040

Koc: 953

2-ethylhexan-1-ol:
Distribution among : Koc: 26.01

environmental compartments

1,2,4-trimethylbenzene**:**

Distribution among environmental compartments : Koc: 1097

mesitylene**:**

Distribution among environmental compartments : Koc: 741.65

cumene**:**

Distribution among environmental compartments : Koc: 884

Stability in soil : No data available

Other adverse effects

Environmental fate and pathways : No data available

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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

Global warming potential (GWP) : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of contents/ container to an approved waste disposal plant.

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 Regulations

IATA

UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (PETROLEUM NAPHTHA)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
Environmentally hazardous	:	yes

IMDG

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PETROLEUM NAPHTHA)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

National Regulations

DOT Classification

UN/ID/NA number	:	NA 1993
Proper shipping name	:	COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA, 1,2,4-TRIMETHYLBENZENE)
Class	:	CBL
Packing group	:	III
Labels	:	None
ERG Code	:	128
Marine pollutant	:	yes(PETROLEUM NAPHTHA)
Remarks	:	Above applies only to containers over 119 gallons or 450

liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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)
naphthalene	91-20-3	100	4859
xylenes	1330-20-7	100	*
benzene	71-43-2	10	*
cumene	98-82-8	5000	*
ethylene oxide	75-21-8	10	*

*: Calculated RQ exceeds reasonably attainable upper limit.

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

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

1,2,4-trimethylbenzene	95-63-6	>= 1 - < 5 %
naphthalene	91-20-3	>= 1 - < 5 %

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

naphthalene 91-20-3

California Prop. 65

WARNING: This product can expose you to chemicals including naphthalene, cumene, benzene, ethylene oxide, which is/are known to the State of California to cause cancer, and benzene, ethylene oxide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

CH INV : The formulation contains substances listed on the Swiss Inventory, On the inventory, or in compliance with the inventory
DSL : All components of this product are on the Canadian DSL
AICS : On the inventory, or in compliance with the inventory

NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

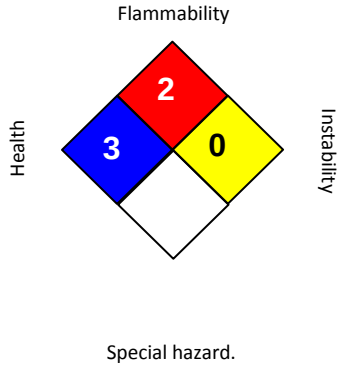
TSCA - 5(a) Significant New Use Rule List of Chemicals
No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
No substances are subject to TSCA 12(b) export notification requirements.

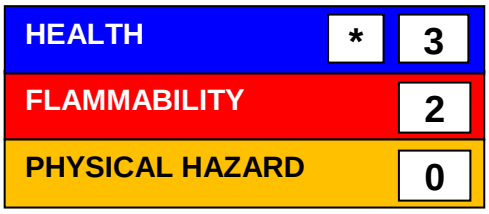
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Revision Date	:	07/23/2018
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
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
ACGIH / TWA	:	8-hour, time-weighted average
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.