

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 30/08/2017 Revision date: 23/05/2018 Supersedes: 30/08/2017 Version: 1.1

ULM-10353-S

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixtures

Product name : PENTABROMOETHYLBENZENE UNLABELED 100 UG/ML IN TOLUENE

Product code : ULM-10353-S

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

#### **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Repr. 2 H361 STOT SE 3 H336 STOT RE 2 H373 Asp. Tox. 1 H304

Full text of hazard classes and H-statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53

Xn; R48/20

Full text of R-phrases: see section 16

## **GHS-US** classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Repr. 2 H361 STOT SE 3 H336 STOT RE 2 H373 Asp. Tox. 1 H304 Aquatic Acute 2 H401

Full text of H statements : see section 16

23/05/2018 EN (English US) 1/12

## TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## Adverse physicochemical, human health and environmental effects

Bladder, Liver, Kidney, Brain.

#### 2.2. Label elements

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H361 - Suspected of damaging the unborn child (if inhaled, if swallowed, in contact with skin) H373 - May cause damage to organs (liver, kidneys, brain, urinary bladder) through prolonged

or repeated exposure (in contact with skin, if inhaled, if swallowed)

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P260 - Do not breathe dust, fume, gas, mist, spray, vapors P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear face shield, protective clothing, protective gloves, eye protection

#### **GHS-US** labeling

Hazard pictograms (GHS-US)







Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H361 - Suspected of damaging fertility, Suspected of damaging the unborn child (Dermal,

Inhalation, oral)

H373 - May cause damage to organs (kidneys, liver, urinary bladder, brain) through prolonged

or repeated exposure (Dermal, Inhalation, oral)

H401 - Toxic to aquatic life

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe fume, mist, spray, vapors

P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER

P302+P352 - If on skin: Wash with plenty of water

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

skin with water/shower

23/05/2018 EN (English US) 2/12

TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P308+P313 - If exposed or concerned: Get medical advice/attention

P312 - Call a doctor, a POISON CENTER if you feel unwell

P314 - Get medical advice/attention if you feel unwell

P321 - Specific treatment (see Hazardous component(s) for labeling on this label)

P331 - Do NOT induce vomiting

P332+P313 - If skin irritation occurs: Get medical advice/attention

P362+P364 - Take off contaminated clothing and wash it before reuse

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry

extinguishing powder to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards

No additional information available

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
TOLUENE UNLABELED	(CAS No) 108-88-3 (EC No) 203-625-9 (EC Index No) 601-021-00-3 (REACH-no) 01-2119471310-51	99.988	F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20
PENTABROMOETHYLBENZENE UNLABELED	(CAS No) 85-22-3 (EC No) 201-593-0 (EC Index No)	0.012	Xi; R36/37/38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
TOLUENE UNLABELED	(CAS No) 108-88-3 (EC No) 203-625-9 (EC Index No) 601-021-00-3 (REACH-no) 01-2119471310-51	99.988	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
PENTABROMOETHYLBENZENE UNLABELED	(CAS No) 85-22-3 (EC No) 201-593-0 (EC Index No)	0.012	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Name	Product identifier	%	GHS-US classification
TOLUENE UNLABELED	(CAS No) 108-88-3	99.988	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401
PENTABROMOETHYLBENZENE UNLABELED	(CAS No) 85-22-3	0.012	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of R- and H- phrases: see section 16

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Evacuate danger area.

23/05/2018 EN (English US) 3/12

## TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

First-aid measures after inhalation

Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact

: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Gently wash with plenty of soap and water, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).

First-aid measures after eye contact

: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Get immediate medical advice/attention.

First-aid measures after ingestion

: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: Suspected of damaging fertility. Suspected of damaging the unborn child (in contact with skin, if inhaled, if swallowed). Causes damage to organs (kidneys, liver, urinary bladder, brain) (in contact with skin, if inhaled, if swallowed).

Symptoms/injuries after inhalation

: May be harmful if inhaled. May cause respiratory irritation. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact Symptoms/injuries after eye contact : Causes skin irritation.: May cause eve irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Alcohol resistant foam. Dry chemical. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard

: Highly flammable liquid and vapor.

Explosion hazard

: May form flammable/explosive vapor-air mixture.

## 5.3. Advice for firefighters

Firefighting instructions

: Wear a self contained breathing apparatus. Use water spray to cool unopened containers. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting

: Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Flammable in presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures

: Use personal protective equipment as required. Evacuate area. Avoid breathing dust, mist, spray, gas. Evacuate unnecessary personnel. Evacuate danger area.

#### 6.1.2. For emergency responders

Protective equipment

: Avoid breathing Dust, mist, vapors. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Do not discharge the product into the environment.

## 6.3. Methods and material for containment and cleaning up

For containment

: Clean up any spills as soon as possible, using an absorbent material to collect it. Keep in suitable, closed containers for disposal. Small Spill: Stop leak if without risk. Move containers from spill area. Dillute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Methods for cleaning up

: This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

No additional information available

23/05/2018 EN (English US) 4/12

## TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed

: Avoid all contact with skin, eyes, or clothing. Handle empty containers with care because residual vapors are flammable. Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer). Keep away from sources of ignition - No smoking.

Precautions for safe handling

: No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust, fume, gas, mist, spray, vapors. Use only outdoors or in a well-ventilated area.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms and face thoroughly after handling.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Store tightly closed in a dry and cool place. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Lighting equipment, ventilating equipment.

20.00000000 ppm Visual impairment, Female

Storage conditions

: Store at room temperature away from light and moisture.

Incompatible materials : Heat sources.

#### 7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

Italy - Portugal - USA ACGIH ACGIH TWA (ppm)

PENTABROMOETHYLBENZENE UNLABELED 100 UG/ML IN TOLUENE

#### 8.1. Control parameters

nai, i chagai commedii.	/ (pp)	reproductive, Pregnancy loss
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
TOLUENE UNLABELED (108	3-88-3)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Visual impairment. Female reproductive. Pregnancy loss. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen.; Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0300 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0200 mg/l Biological specimen: In blood Remarks: Prior to last shift of workweek Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS-No.: 108-88-3 Parameters: o-Cresol Value: 0.3000 mg/g Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	375 mg/m³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m³)	560 mg/m³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m³)	375 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (mg/m³)	560 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000

23/05/2018 EN (English US) 5/12

TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

TOLUENE UNLABELED (108-88-3)		
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-2
USA OSHA	Remark (OSHA)	OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967

#### 8.2. Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.









Materials for protective clothing : Wear suitable protective clothing and gloves.

Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Chemical goggles or safety glasses. Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. Wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

Physical state : Liquid

Appearance : Liquid

Molecular mass : 92.14 g/mol

Color : Colorless

Odor : No data available
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : -93 °C (-135 °F)
Freezing point : No data available

Boiling point :  $110 - 111 \,^{\circ}\text{C} (230 - 232 \,^{\circ}\text{F})$ Flash point :  $4 \,^{\circ}\text{C} (39.2 \,^{\circ}\text{F}) - \text{closed cup}$ 

Auto-ignition temperature : 535 °C (995 °F)

Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapor

Vapor pressure : 29.1 hPa (21.8 mmHg) at 20.0  $^{\circ}$ C (68.0  $^{\circ}$ F)

Relative vapor density at 20 °C : No data available Relative density : No data available

Specific gravity / density : 0.865 g/ml at  $25 \,^{\circ}\text{C}$  (77  $^{\circ}\text{F}$ )

Solubility : No data available Log Pow No data available Log Kow No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive properties No data available Oxidizing properties : No data available **Explosion limits** : 1.2 - 7 % (V)

#### 9.2. Other information

No additional information available

23/05/2018 EN (English US) 6/12

TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

See storage and expiration date on CoA.

#### 10.3. Possibility of hazardous reactions

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

#### 10.4. Conditions to avoid

Avoid Heat, Flames and Sparks. Extremes of temperature and direct sunlight. Open flame.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). May release flammable gases.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

PENTABROMOETHYLBENZENE UNLABELED 100 UG/ML IN TOLUENE	
LD50 oral rat	> 5580 mg/kg
LD50 dermal rabbit	12196 mg/kg
LC50 inhalation rat (mg/l)	12500 - 28800 mg/m³ 4 h
ATE CLP (dermal)	12196.000 mg/kg body weight
ATE CLP (vapors)	12.500 mg/l/4h
ATE CLP (dust, mist)	12.500 mg/l/4h

TOLUENE UNLABELED (108-88-3)	
LD50 oral rat	> 5580 mg/kg
LD50 dermal rabbit	12196 mg/kg
LC50 inhalation rat (mg/l)	12,500 - 28,800 mg/m3 - 4 h
ATE CLP (dermal)	12196.000 mg/kg body weight
ATE CLP (vapors)	12.500 mg/l/4h
ATE CLP (dust, mist)	12.500 mg/l/4h

## PENTABROMOETHYLBENZENE UNLABELED (85-22-3)

LD50 dermal rabbit > 8000 mg/kg

Skin corrosion/irritation : Causes skin irritation.

Skin Rabbit

Causes skin irritation

24 Hours

Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not available
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Experiments have shown reproductive toxicity effects in male and female laboratory animals.

Specific target organ toxicity – single exposure : May cause drowsiness or dizziness.

Specific target organ toxicity – repeated : May cause damage to organs (liver, kidneys, brain, urinary bladder) through prolonged or exposure (in contact with skin, if inhaled, if swallowed).

Aspiration hazard : May be fatal if swallowed and enters airways.

Potential Adverse human health effects and : Lung irritation, chest pain, pulmonay edema, Inhalation sudies have shown the development of

symptoms inflammatory and ulcerous lesions of the penis, prepuce, and scrotom in animals. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be

construed as guaranteeing any specific property of the product.

IARC group : 3

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory irritation. May be fatal if swallowed and enters

airways. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

23/05/2018 EN (English US) 7/12

TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Toxic to bees.

Ecology - water : Toxic to aquatic life with long lasting effects.

PENTABROMOETHYLBENZENE UNLABELED 100 UG/ML IN TOLUENE		
LC50 fish 1	74 - 340 mg/l Lepomis macrochirus (Bluegill) - 96h	
LC50 other aquatic organisms 1	10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h	
EC50 Daphnia 1	8 mg/l Daphnia magna (Water flea) - 24h	
LC50 fish 2	7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h	
EC50 Daphnia 2	6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h	
ErC50 (algae)	245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h	
LOEC (chronic)	8.04 mg/l Pimephales promelas (Fathead minnow) - 7 d	
NOEC (chronic)	5.44 mg/l Pimephales promelas (fathead minnow) - 7 d	

,	,
TOLUENE UNLABELED (108-88-3)	
EC50 Daphnia 1	8 mg/l Daphnia magna (Water flea) - 24h
LC50 fish 2	7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h
EC50 Daphnia 2	6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h
ErC50 (algae)	245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h
ErC50 (other aquatic plants)	10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h
NOEC (chronic)	5.44 mg/l Pimephales promelas (fathead minnow) - 7 d

#### 12.2. Persistence and degradability

TOLUENE UNLABELED (108-88-3)	
Persistence and degradability	Readily biodegradable.

#### 12.3. Bioaccumulative potential

TOLUENE UNLABELED (108-88-3)	
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3 d
Bioconcentration factor (BCF REACH)	90

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

## **TOLUENE UNLABELED (108-88-3)**

PBT: not relevant - no registration required

## 12.6. Other adverse effects

Other adverse effects : Very toxic to aquatic life with long lasting effects. Disposal must be done according to official

regulations. Avoid release to the environment.

Other information : Avoid exposure - obtain special instructions before use.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

Product/Packaging disposal recommendations: : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product. Hazardous waste due to toxicity.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No.(DOT) : 1294 DOT NA no. UN1294

23/05/2018 EN (English US) 8/12

TOLUENE

ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Toluene

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid

FLAMMABLE LIQUID

Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T4 - 2.65 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT RQ : 1000 lbs

Marine pollutant : No

#### 14.3. Additional information

Other information : No supplementary information available.

#### **Overland transport**

Packing group (ADR) : II

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates :

33 1294

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) 11
EAC : 3YE
Excepted quantities (ADR) : E2

### Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

MFAG-No : 130

## Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

23/05/2018 EN (English US) 9/12

TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

#### 14.4. Environmental hazards

Other information : No supplementary information available.

#### 14.5. Special precautions for user

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

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

PENTABROMOETHYLBENZENE UNLABELED 100 UG/ML IN TOLUENE	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

TOLUENE UNLABELED (108-88-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

PENTABROMOETHYLBENZENE UNLABELED (85-22-3)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

## 15.2. International regulations

#### **CANADA**

#### PENTABROMOETHYLBENZENE UNLABELED 100 UG/ML IN TOLUENE

Listed on the Canadian DSL (Domestic Substances List)

## **TOLUENE UNLABELED (108-88-3)**

Listed on the Canadian DSL (Domestic Substances List)

## 15.2.1. National regulations

No additional information available

## 15.3. US State regulations

-	
PENTABROMOETHYLBENZENE UNLABELED 100 UG/ML IN TOLUENE	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
No significant risk level (NSRL)	7000 μg/day

23/05/2018 EN (English US) 10/12

## TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

PENTABROMOETHYLBENZENE UNLABELED 100 UG/ML IN TOLUENE	
State or local regulations	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances U.S Pennsylvania - RTK (Right to Know) List

TOLUENE UNLABELE	D (108-88-3)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	7000 μg/day

PENTABROMOETHYLBENZENE UNLABELED (85-22-3)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	7000 μg/day

## **TOLUENE UNLABELED (108-88-3)**

#### State or local regulations

- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

#### PENTABROMOETHYLBENZENE UNLABELED (85-22-3)

#### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## **SECTION 16: Other information**

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

## Full text of R-, H- and EUH-phrases:

Asp. Tox. 1 Aspiration hazard Category 1  Eye Irrit. 2 Serious eye damage/eye irritation Category 2  Repr. 2 Reproductive toxicity Category 2  Skin Irrit. 2 Skin corrosion/irritation Category 2  Skin Irrit. 2 Specific target organ toxicity (repeated exposure) Category 2  STOT RE 2 Specific target organ toxicity (single exposure) Category 3  STOT SE 3 Specific target organ toxicity (single exposure) Category 3  H225 Highly flammable liquid and vapor  H304 May be fatal if swallowed and enters airways  H315 Causes skin irritation  H319 Causes serious eye irritation  H336 May cause respiratory irritation  H336 May cause drowsiness or dizziness  H361 Suspected of damaging fertility or the unborn child  H373 May cause damage to organs through prolonged or repeated exposure  R11 Highly flammable  R36/37/38 Irritating to eyes, respiratory system and skin  R38 Irritating to skin  R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation  R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  R62 Possible risk of harm to the unborn child  R65 Harmful: may cause lung damage if swallowed		iu Lori-prinases.
Flam. Liq. 2 Flammable liquids Category 2 Repr. 2 Reproductive toxicity Category 2 Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT RE 2 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H319 Causes serious eye irritation H336 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child		1 0 7
Repr. 2 Reproductive toxicity Category 2 Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT RE 2 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H319 Causes serious eye irritation H336 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child		
Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT RE 2 Specific target organ toxicity (repeated exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H319 Causes serious eye irritation H336 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	Flam. Liq. 2	Flammable liquids Category 2
STOT RE 2 Specific target organ toxicity (repeated exposure) Category 2  STOT SE 3 Specific target organ toxicity (single exposure) Category 3  STOT SE 3 Specific target organ toxicity (single exposure) Category 3  H225 Highly flammable liquid and vapor  H304 May be fatal if swallowed and enters airways  H315 Causes skin irritation  H319 Causes serious eye irritation  H336 May cause respiratory irritation  H336 May cause drowsiness or dizziness  H361 Suspected of damaging fertility or the unborn child  H373 May cause damage to organs through prolonged or repeated exposure  R11 Highly flammable  R36/37/38 Irritating to eyes, respiratory system and skin  R38 Irritating to skin  R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation  R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  R62 Possible risk of impaired fertility  R63 Possible risk of harm to the unborn child	Repr. 2	Reproductive toxicity Category 2
STOT SE 3 Specific target organ toxicity (single exposure) Category 3  STOT SE 3 Specific target organ toxicity (single exposure) Category 3  H225 Highly flammable liquid and vapor  H304 May be fatal if swallowed and enters airways  H315 Causes skin irritation  H319 Causes serious eye irritation  H336 May cause respiratory irritation  H336 May cause drowsiness or dizziness  H361 Suspected of damaging fertility or the unborn child  H373 May cause damage to organs through prolonged or repeated exposure  R11 Highly flammable  R36/37/38 Irritating to eyes, respiratory system and skin  R38 Irritating to skin  R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation  R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  R62 Possible risk of impaired fertility  R63 Possible risk of harm to the unborn child	Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3 Specific target organ toxicity (single exposure) Category 3  H225 Highly flammable liquid and vapor H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H225 Highly flammable liquid and vapor H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	H225	Highly flammable liquid and vapor
H319 Causes serious eye irritation H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	H304	May be fatal if swallowed and enters airways
H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	H315	Causes skin irritation
H336 May cause drowsiness or dizziness H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	H319	Causes serious eye irritation
H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	H335	May cause respiratory irritation
H373 May cause damage to organs through prolonged or repeated exposure R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	H336	May cause drowsiness or dizziness
R11 Highly flammable R36/37/38 Irritating to eyes, respiratory system and skin R38 Irritating to skin R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	H361	Suspected of damaging fertility or the unborn child
R36/37/38 Irritating to eyes, respiratory system and skin  R38 Irritating to skin  R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation  R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  R62 Possible risk of impaired fertility  R63 Possible risk of harm to the unborn child	H373	May cause damage to organs through prolonged or repeated exposure
R38 Irritating to skin  R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation  R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  R62 Possible risk of impaired fertility  R63 Possible risk of harm to the unborn child	R11	Highly flammable
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	R36/37/38	Irritating to eyes, respiratory system and skin
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	R38	Irritating to skin
R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child	R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R63 Possible risk of harm to the unborn child	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
	R62	Possible risk of impaired fertility
R65 Harmful: may cause lung damage if swallowed	R63	Possible risk of harm to the unborn child
	R65	Harmful: may cause lung damage if swallowed

23/05/2018 EN (English US) 11/12

## TOLUENE ULM-10353-S

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

R67	Vapors may cause drowsiness and dizziness
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

temporary incapacitation or residual injury.

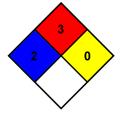
NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended

solids) that can be ignited under almost all ambient

temperature conditions.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



#### **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

#### CIL Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

23/05/2018 EN (English US) 12/12