

FOAMTREAT 12248

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Substance key: 000000475918

Revision Date: 10/26/2020

Version : 2 - 5 / USA

Date of printing :04/15/2021

SECTION 1. IDENTIFICATION

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

Trade name: FOAMTREAT 12248

Material number: 251877

Chemical family: Mixture

Primary product use: Defoamer

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	: Category 3
Skin irritation	: Category 2
Eye irritation	: Category 2A
Reproductive toxicity	: Category 2
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure (Inhalation)	: Category 2 (Central nervous system)
Aspiration hazard	: Category 1

GHS label elementsHazard pictograms : 

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

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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.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Precautionary statements

:

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.

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P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Toluene	108-88-3	50 - 70
Methyl isobutyl ketone	108-10-1	30 - 50

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.
- In case of skin contact : Remove contaminated clothing. Flush all affected areas with large amounts of water for at least 15 minutes. Seek medical attention immediately.
- In case of eye contact : Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.
- If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

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- carbon dioxide.
Cool containers/tanks with water spray.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Hydrogen fluoride
Aldehydes
- Burning produces noxious and toxic fumes.
Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.
- Further information : In the event of fire and/or explosion do not breathe fumes.
Do not allow run-off from fire fighting to enter drains or water courses.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
Avoid contact with skin, eyes and clothing.
Wash thoroughly after handling.
Remove all spark producing devices or ignition sources. Wear proper personnel protective equipment. Using non-sparking tools collect as a liquid for recycling/disposal or absorb onto a suitable absorbant and secure in a suitable container. Collect any contaminated soils or cleaning waste in a suitable container for proper disposal.
Absorbent materials such as dry sand, absorbent booms, and vermiculite may be used to keep material from entering drains, sewers, or streams.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
- Methods and materials for containment and cleaning up : Prevent product from entering drains.
Non-sparking tools should be used.
Take measures to prevent the build up of electrostatic charge.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

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national regulations (see section 13).
Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Store in a cool area away from heat, sparks, flame and other sources of ignition. Keep container tightly sealed.
Prevent a possible fire hazard by bonding and grounding or inert gas purge.
Wash thoroughly after handling.
- Further information on storage conditions : Store in a cool, dry location away from heat, sparks and open flames.
Store in original container.
Keep container tightly closed.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m ³	NIOSH REL
		ST	150 ppm 560 mg/m ³	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm (10 minutes)	OSHA Z-2
		TWA	100 ppm 375 mg/m ³	OSHA P0
		STEL	150 ppm 560 mg/m ³	OSHA P0
Methyl isobutyl ketone	108-10-1	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		ST	75 ppm 300 mg/m ³	NIOSH REL
		TWA	50 ppm 205 mg/m ³	NIOSH REL
		TWA	100 ppm 410 mg/m ³	OSHA Z-1
		TWA	50 ppm 205 mg/m ³	OSHA P0
		STEL	75 ppm 300 mg/m ³	OSHA P0
Toluene	108-88-3	TWA	20 ppm	ACGIH

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		TWA	100 ppm 375 mg/m ³	NIOSH REL
		ST	150 ppm 560 mg/m ³	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm (10 minutes)	OSHA Z-2
		TWA	100 ppm 375 mg/m ³	OSHA P0
		STEL	150 ppm 560 mg/m ³	OSHA P0
Methyl isobutyl ketone	108-10-1	TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
		ST	75 ppm 300 mg/m ³	NIOSH REL
		TWA	50 ppm 205 mg/m ³	NIOSH REL
		TWA	100 ppm 410 mg/m ³	OSHA Z-1
		TWA	50 ppm 205 mg/m ³	OSHA P0
		STEL	75 ppm 300 mg/m ³	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Toluene	108-88-3	Toluene	In blood	Prior to last shift of workweek	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI
Methyl isobutyl ketone	108-10-1	methyl isobutyl ketone	Urine	End of shift (As soon as possible)	1 mg/l	ACGIH BEI

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

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection
Remarks

: Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.

Eye protection

: Safety glasses or chemical splash goggles.

Skin and body protection

: Impervious protective clothing and chemically resistant footwear should be worn to minimize contact.

Protective measures

: Observe the usual precautions for handling chemicals. Avoid contact with the skin and the eyes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Liquid

Colour

: colourless, clear

Odour

: characteristic

Odour Threshold

: not determined

pH

: Not applicable

Freezing point

: not determined

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Boiling point	:	not determined
Flash point	:	< 73 °F / 23 °C
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Density	:	0.8 - 0.84 g/cm ³ (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	not tested.
Viscosity		
Viscosity, dynamic	:	< 10 mPa.s
Viscosity, kinematic	:	not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Store away from aldehydes. Keep away from oxidizing agents, and acidic or alkaline products.

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Incompatible materials : Strong acids and oxidizing agents

Hazardous decomposition products : No decomposition if stored and applied as directed.

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

Eye contact
Skin contact
Ingestion
Inhalation

Acute toxicity**Product:**

Acute oral toxicity : Acute toxicity estimate: 4,727 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 25 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

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

Components:**Toluene:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Symptoms: Vomiting, Stomach/intestinal disorders

Acute inhalation toxicity : (Rat): > 20 mg/l
Exposure time: 4 h
Target Organs: Lungs, Respiratory system, Liver, Kidney,
Nervous system
Symptoms: Lung oedema, Breathing difficulties, Vomiting,
Pain, Dizziness

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Methyl isobutyl ketone:

Acute oral toxicity : LD50 (Rat): 2,080 mg/kg
Method: OECD Test Guideline 401
Remarks: Ingestion may cause gastrointestinal irritation,
nausea, vomiting and diarrhoea.

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

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Skin corrosion/irritation**Product:**

Result: irritating

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:**Toluene:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

Methyl isobutyl ketone:

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

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

Result: irritating

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Components:**Toluene:**

Species: rabbit eye

Result: slight irritation

Assessment: No eye irritation

Method: OECD Test Guideline 405

Methyl isobutyl ketone:

Species: Rabbit

Result: Moderate eye irritation

Method: OECD Test Guideline 405

Species: Human

Result: Eye irritation

Respiratory or skin sensitisation**Product:**

Result: non-sensitizing

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

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Components:**Toluene:**

Exposure routes: Skin contact

Species: Rat

Result: Does not cause skin sensitisation.

Methyl isobutyl ketone:

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

Germ cell mutagenicity**Components:****Toluene:**

Genotoxicity in vitro

: Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: Regulation (EC) No. 440/2008, Annex, B.13/14
(Ames test)
Result: negative

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

Genotoxicity in vivo

: Test Type: Cytogenetic assay
Species: Rat
Method: Other
Result: negative

Germ cell mutagenicity -
Assessment

: In vitro tests did not show mutagenic effects

In vivo tests did not show mutagenic effects

Methyl isobutyl ketone:

Genotoxicity in vitro

: Test Type: Chromosome aberration test in vitro
Result: negative

Test Type: Ames test
Result: negative

Genotoxicity in vivo

: Test Type: In vivo micronucleus test
Species: Mouse
Result: negative

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Carcinogenicity**Components:****Toluene:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Methyl isobutyl ketone:

Carcinogenicity - Assessment : Tumors were noticed after prolonged inhalation toxicity testing on rats.

IARC

Group 2B: Possibly carcinogenic to humans

Methyl isobutyl ketone 108-10-1

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

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

Reproductive toxicity**Components:****Toluene:**

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

Methyl isobutyl ketone:

Effects on fertility : Species: Rat
Application Route: Inhalation
General Toxicity - Parent: NOAEL: 4.1 mg/l
General Toxicity F1: NOAEL: 4.1 mg/l
Method: OECD Test Guideline 416

Effects on foetal development : Species: Rat
Application Route: Inhalation
Teratogenicity: NOAEL: 4.1 mg/l
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.
Animal testing did not show any effects on foetal development.

STOT - single exposure**Components:****Toluene:**

Assessment: May cause drowsiness or dizziness.

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Methyl isobutyl ketone:

Exposure routes: Inhalation

Target Organs: Nose, Respiratory system, Eyes

Remarks: Based on human experience.

STOT - repeated exposure**Components:****Toluene:**

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

Methyl isobutyl ketone:

Remarks: no data available

Repeated dose toxicity**Components:****Toluene:**

Target Organs: Liver, Nervous system

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

Remarks: no data available

Aspiration toxicity**Components:****Toluene:**

May be fatal if swallowed and enters airways.

Methyl isobutyl ketone:

no data available

Experience with human exposure**Product:**

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

Components:**Methyl isobutyl ketone:**

General Information : Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

Skin contact : Remarks: Prolonged skin contact may defat the skin and produce dermatitis.

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

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

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

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

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

Poisoning by resorption through skin possible.

Has a degreasing effect on the skin.

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

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

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

Toxicity to microorganisms : Remarks: no data available

Components:**Toluene:**

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

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

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

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

Toxicity to daphnia and other : NOEC (Ceriodaphnia spec.): 0.74 mg/l

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aquatic invertebrates
(Chronic toxicity) End point: Reproduction rate
Exposure time: 7 d
Test Type: semi-static test
Method: Other

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

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

Methyl isobutyl ketone:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 179 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 200 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

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

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

Toxicity to daphnia and other aquatic invertebrates
(Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 30 - 35 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (Pseudomonas putida): 275 mg/l
Exposure time: 16 h

Persistence and degradability**Product:**

Biodegradability : Remarks: Not applicable

Components:**Toluene:**

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

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Physico-chemical
removability : Remarks: Biodegradable

Methyl isobutyl ketone:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 83 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: no data available

Components:**Toluene:**

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

Methyl isobutyl ketone:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Mobility in soil**Components:****Toluene:**

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

Methyl isobutyl ketone:

Distribution among
environmental compartments : Medium: Soil
Method: calculated
Remarks: After release, adsorbs onto soil.

Other adverse effects**Product:**

Additional ecological
information : no data available

Components:**Toluene:**

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

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- Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.
- Methyl isobutyl ketone:**
- Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
- Additional ecological information : Do not allow to enter soil, waterway or waste water canal in concentrations > 1 %.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- RCRA - Resource Conservation and Recovery Act Authorization Act Waste Code : Yes -- If it becomes a waste as sold.
: D001
- Waste from residues : Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

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

- UN/NA-number: UN 1993
Proper shipping name: Flammable liquids, n.o.s., mixture
Technical Name: TOLUENE
Methyl isobutyl ketone
- Primary hazard class: 3
Packing group: II
Reportable Quantity: 825.000 kg TOLUENE
5,154.000 kg Methyl isobutyl ketone
- Emergency Response Guide: 128

IATA

- UN/ID number: UN 1993
Proper shipping name: Flammable liquid, n.o.s., mixture
Hazard inducer(s): TOLUENE
Methyl isobutyl ketone
- Primary risk: 3
Packing group: II
Remarks: Shipment permitted

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IMDG

UN no.: UN 1993
 Proper shipping name: Flammable liquid, n.o.s., mixture
 Hazard inducer(s): TOLUENE
 Methyl isobutyl ketone

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

SECTION 15. REGULATORY INFORMATION**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Toluene	108-88-3	1000	1818
Methyl isobutyl ketone	108-10-1	5000	11363

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

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

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

Toluene	108-88-3	50 - 70 %
Methyl isobutyl ketone	108-10-1	30 - 50 %

Clean Water Act

This product contains the following priority pollutants at concentrations greater than 0.1%:,
 Toluene

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

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

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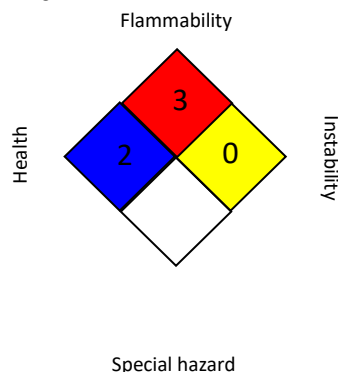
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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-2	:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-2 / TWA	:	8-hour time weighted average
OSHA Z-2 / CEIL	:	Acceptable ceiling concentration
OSHA Z-2 / Peak	:	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International

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Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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

For additional information, contact Product Stewardship.

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