

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

## PIPESCRUB™

Revision Date: 03-Jan-2012

Revision Number: 6

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

Product Name PIPESCRUB™

**Relevant identified uses of the substance or mixture and uses advised against**

Recommended Use Cleaner

Uses Advised Against No information available

**Details of the supplier of the safety data sheet**

Halliburton Manufacturing Services, Ltd.  
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[www.halliburton.com](http://www.halliburton.com)

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E-Mail address: [fdunexchem@halliburton.com](mailto:fdunexchem@halliburton.com)**Emergency telephone number**

+44 1224 795277 or +1 281 575 5000

**Emergency telephone 24h - (EC)1272/2008**

Europe	112
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO): + 47 22 591300
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
Spain	Poison Information Service (ES): +34 91 562 04 20
United Kingdom	NHS Direct (UK): +44 0845 46 47

### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

Skin Corrosion / irritation	Category 2- H315
Skin Sensitization	Category 1- H315
Acute Aquatic Toxicity	Acute 1- H400
Chronic Aquatic Toxicity	Chronic 1- H410

**2. HAZARDS IDENTIFICATION**

Flammable liquids.

Category 3- H226

**Classification according to EU Directives 67/548/EEC or 1999/45/EC***For the full text of the R-phrases mentioned in this Section, see Section 16***Classification**

Xn - Harmful.  
Xi - Irritant.  
N - Dangerous For The Environment.

**Risk Phrases**

R10 Flammable.  
R38 Irritating to skin.  
R43 May cause sensitization by skin contact.  
R65 Harmful: may cause lung damage if swallowed.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Label Elements****Hazard Pictograms****Signal Word****Warning****Hazard Statements**

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H226 - Flammable liquid and vapor

**Contains****Substances**

Citrus, extract

**CAS Number**

94266-47-4

**Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Other Hazards**

None known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Citrus, extract	304-454-3	94266-47-4	60 - 100%	R10 Xi; R38-43 Xn; R65 N; R50/53	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 3 (H402) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

#### Description of first aid measures

##### Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

##### Eyes

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

##### Skin

##### Ingestion

Wash with soap and water. Get medical attention if irritation persists.

Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

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

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May cause allergic skin reaction.

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

##### Notes to Physician

Treat symptomatically

### 5. FIREFIGHTING MEASURES

#### Extinguishing media

##### Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

##### Extinguishing media which must not be used for safety reasons

None known.

#### Special hazards arising from the substance of mixture

##### Special Exposure Hazards

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce toxic gases. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations.

#### Advice for firefighters

##### Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

### 6. ACCIDENTAL RELEASE MEASURES

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

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas. See Section 12 for additional information

#### Environmental precautions

Prevent from entering sewers, waterways, or low areas.

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

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

#### Reference to other sections

See Section 12 for additional information.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

### Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Store in a cool well ventilated area. Keep from heat, sparks, and open flames. Product has a shelf life of 12 months.

### Specific End Use(s)

### Exposure Scenario

No information available

### Other Guidelines

No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
Citrus, extract	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Citrus, extract	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### Derived No Effect Level (DNEL)

No information available.

### Predicted No Effect Concentration (PNEC)

No information available.

### Exposure controls

### Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

### Personal protective equipment

#### Respiratory Protection

Not normally needed. But if significant exposures are possible then the following respirator is recommended:  
Organic vapor respirator.

#### Hand Protection

Impervious rubber gloves.

#### Skin Protection

Rubber apron.

#### Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

#### Other Precautions

Eyewash fountains and safety showers must be easily accessible.

### Environmental Exposure Controls

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State:** Liquid

**Color:** Clear colorless to pale yellow

**Odor:** Citrus

**Odor Threshold:** No information available

### Property

### Values

### Remarks/ Method

### pH:

No data available

### Melting Point/Range

No data available

### Freezing Point/Range (C):

-92.1°C

### Boiling Point/Range

154°C

### Flash Point

46°C

### PMCC

#### upper flammability limit

6.1%

#### lower flammability limit

0.7%

### Evaporation rate

< 1

### Vapor Pressure

2 mmHg

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density	4.73
Specific Gravity	0.84
Water Solubility	Insoluble in water
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	4.23
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidizing Properties	No information available

### Other information

VOC Content (%)	No data available
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## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable

### Chemical Stability

Stable

### Possibility of Hazardous Reactions

Will Not Occur

### Conditions to Avoid

Keep away from heat, sparks and flame. Avoid contact with acids. Avoid contact with aluminum chloride.

### Incompatible Materials

Strong oxidizers. Strong acids. Pentafluoroethylene.

### Hazardous Decomposition Products

Oxides of nitrogen. Acrid fumes. Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

##### Inhalation

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

##### Eye Contact

May cause eye irritation.

##### Skin Contact

May cause skin irritation. May cause an allergic skin reaction. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

##### Ingestion

May be fatal if swallowed. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions.

### Chronic Effects/Carcinogenicity

Prolonged or repeated exposure may cause central nervous system and brain effects. FDA and WHMIS list D-limonene as Generally Recognized As Safe (GRAS).

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Citrus, extract	> 5000 mg/kg	No data available	No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

**12. ECOLOGICAL INFORMATION****Ecotoxicity Effects**

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Citrus, extract	EC50: 20.41 mg/l (Skeletonema costatum)	LC50: >1000 mg/l (Scophthalmus maximus)	No information available	LC50: 34.73 mg/l (Acartia tonsa)

**Persistence and degradability**

Readily biodegradable

**Bioaccumulative potential**

No information available

Substances	Log Pow
Citrus, extract	4.23

**Mobility in soil**

No information available

**Results of PBT and vPvB assessment**

No information available.

**Other adverse effects****Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal Method**

Disposal should be made in accordance with federal, state, and local regulations.

**Contaminated Packaging**

Follow all applicable national or local regulations.

**14. TRANSPORT INFORMATION****IMDG/IMO**

UN Number: UN2319,  
UN Proper Shipping Name: Terpene Hydrocarbons, N.O.S.  
Transport Hazard Class(es): , 3  
Packing Group: , III  
EMS: EmS F-E, S-D

**RID**

UN Number: UN2319,  
UN Proper Shipping Name: Terpene Hydrocarbons, N.O.S.  
Transport Hazard Class(es): , 3  
Packing Group: , III

**ADR**

UN Number: UN2319,  
UN Proper Shipping Name: Terpene Hydrocarbons, N.O.S.  
Transport Hazard Class(es): , 3  
Packing Group: , III

**IATA/ICAO**

UN Number: UN2319,  
UN Proper Shipping Name: Terpene Hydrocarbons, N.O.S.

**14. TRANSPORT INFORMATION**

Transport Hazard Class(es): , 3  
Packing Group: , III

Special Precautions for User None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

**EINECS Inventory** This product, and all its components, complies with EINECS  
**US TSCA Inventory** All components listed on inventory or are exempt.  
**Canadian DSL Inventory** All components listed on inventory or are exempt.

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**Germany, Water Endangering Classes (WGK)** WGK 1: Low hazard to waters.

**Chemical Safety Assessment**

No information available

**16. OTHER INFORMATION****Full text of R-phrases referred to under Sections 2 and 3**

R10 Flammable.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R65 Harmful: may cause lung damage if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

Revision Date: 03-Jan-2012

Revision Note Not applicable

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

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**End of Safety Data Sheet**