

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: No-Toil Biodegradable Foam Filter Cleaner

Product. No: NT-03/NT-20

Print date: 17OCT2011

Specification No:

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

1.1.1 Trade name/designation:

No-Toil Biodegradable Foam Filter Cleaner

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

1.2.1 Relevant identified uses:

Foam air filter cleaner

1.2.2 Uses advised against:

All others not listed above

1.3 Details of the supplier

1.3.1 Supplier:

No Toil Industries

1.3.2 E-Mail

-

1.3.3 U.S. Address

1327 Harter Rd.

Yuba City, Ca, 95993

1.3.4 Phone Number:

(530)671-4645

1.4 Emergency Telephone Number

Chemtrec: 1-800-424-9300

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Class 13: Non-flammable solids in non-flammable package

2.1.2 Classification according to 67/548/EEC or 1999/45/EC

EU Hazard Classification: Xi: Irritant

EU Risk Phrases: R36/37/38, S2, S22, S24/25

2.1.3 Additional information:

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) No 1272/2008

Product identifier:

No-Toil Biodegradable Foam Filter Cleaner

Mixtures:

Hazard pictograms:



Signal word:

Warning!

Hazard statements:

H303, H315, H319, H335

Precautionary statements:

P264, P280, P305+P351+P338, P337+P313

Supplemental Hazard information (EU):

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2.3 Other hazards

Adverse physicochemical effects:

Adverse human health effects and symptoms:

Symptoms of overexposure

Eye contact: May cause eye irritation. No significant adverse effects expected.

Skin contact: May cause skin irritation seen as redness and swelling. In the presence of moisture or sweat, may cause more severe irritation, including burns, following prolonged contact.

Ingestion: May cause burns of the mouth, throat, Esophagus and Diarrhea if large quantities are ingested.

Inhalation: May be irritating to the nose, throat, and respiratory tract.

Adverse environmental effects:

Other adverse hazards:

Section 3: Composition/information on ingredients

3.1 Description of the mixture:

CAS No	EC No	INDEX No	REACH No	% [weight]	Name	Classification according to 67/548/EEC
497-19-8	207-838-8	011-005-00-2		97-99	Sodium Carbonate	Xi, R36, S2, S22, S26
Proprietary				1-3	Balancing Agent	

Section 4: First Aid Measures

4.1 Description of first aid measures

4.1.1 General information:

4.1.2 Eye contact:

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

4.1.3 Inhalation:

Move to fresh air. If not breathing administer CPR. If symptoms persist, call a physician.

4.1.4 Skin contact:

Wash off with soap and water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

4.1.5 Ingestion:

Do not induce vomiting. If conscious, give 2 glasses of water or milk. Call a physician or Poison Control Center immediately.

4.1.6 Self-protection of the first aider:

4.1.7 Notes for the doctor:

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

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Section 5: Firefighting measures

- 5.1 Extinguishing media:
 - 5.1.1 Suitable extinguishing media:
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 - 5.1.2 Unsuitable extinguishing media:
None
- 5.2 Special hazards arising from the substance or mixture
 - 5.2.1 Hazardous combustion products:
Non-combustible
- 5.3 Advice for fire-fighters:
No special precautions required. Recommend SCBA and full protective clothing. Dike area to prevent runoff.
- 5.4 Additional information:

Section 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 - 6.1.1 For non-emergency personnel
 - Protective equipment:
Chemical resistant gloves
 - Emergency procedures:
Avoid dust formation.
 - 6.1.2 For emergency responders
 - Personal protective equipment:
Chemical resistant gloves, safety goggles, and in dusting conditions, use a NIOSH/MSHA approved dust mask.
- 6.2 Environmental precautions:
Do not flush into surface water or sanitary sewer system. Prevent any mixture with an acid into the sewer/drain.
- 6.3 Methods and material for containment and cleaning up
 - 6.3.1 For containment:
Sweep up and shovel into suitable containers for disposal.
 - 6.3.2 For cleaning up:
Keep in properly labeled containers. Keep in suitable, closed containers for disposal.
- 6.4 Additional information:

Section 7: Handling and storage

- 7.1 Precautions for safe handling
 - 7.1.1 Protective measures:
Ensure adequate ventilation. Keep away from incompatible products.
 - 7.1.2 Advice on general occupational hygiene
Ensure that eyewash stations and safety showers are close to the workstation location. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store in original container. Keep in a dry place. Keep in properly labeled containers. Keep container closed. Keep away from incompatible products.

Packaging materials:

Polyethylene

Woven plastic material + PE

Storage class:

Class 13: Non-flammable solids in non-flammable package

7.3 Specific end uses:

7.3.1 Recommendations:

Foam air filter cleaner

7.3.2 Industrial sector specific solutions:

Section 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits:

Limit value type (country of origin)	Substance name	EC-No.	CAS-No	Limit value	Monitoring and observation processes
PEL(US OSHA) TWA (US OSHA) PEL (US MSHA)	Sodium Carbonate	207-838-8	497-19-8	15 mg/m3 5 mg/m3 10 mg/m3	Total dust Resp fraction Total dust

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Provide appropriate exhaust ventilation at places where dust is formed. Apply technical measures to comply with the occupational exposure limits.

8.2.2 Personal protective equipment:

8.2.2.1 Eye/Face protection:

Wear safety goggles.

8.2.2.2 Skin protection:

Wear a dust impervious protective suit, rubber or plastic boots, rubber or plastic apron, and suitable gloves (suitable material: Neoprene, or Natural rubber).

8.2.2.3 Respiratory protection:

Effective dust mask. Recommended Filter type: P2

8.2.2.4 Thermal hazards:

8.2.3 Environmental exposure controls:

Dispose of rinse water in accordance with local and national regulations.

8.2.4 Consumer exposure control

8.2.4.1 Measures related to consumer uses of the substance (as such or in mixtures):

8.2.4.2 Measures related to the service life of the substance in articles:

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Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: **Solid** Color: **White, Granular** Odor: **Odorless** Odor threshold:

9.1.2 Safety relevant basic data

pH (20 °C): **11.3 (1% Aqueous Solution); 11.6 (10% Aqueous Solution)**

Melting point/range(°C): **851**

Initial boiling point/range (°C): **No Data**

Decomposition temperature (°C): **400**

Flash point (°C): **No Data**

Ignition temperature (°C): **No Data**

Vapor pressure (hPa) at °C: **No Data**

Vapor density (air = 1): **No Data**

Density (g/cm³) at 20 °C: **>=2.52, <= 2.53**

Bulk density (kg/m³): **768.06-1040.08**

Water solubility (20°C in g/l): **7G/100G water**

Solubility(ies): **No Data**

Partition coefficient: **No Data**

N-Octanol/Water (log Po/w): **No Data**

Viscosity, dynamic (mPa s): **No Data**

9.1.3 Physical hazards:

Eye, skin, and respiratory irritant

9.2 Other safety information:

Properties of explosive atmospheres (mixtures):

Gases and vapors: **No Data**

Dusts: **No Data**

Physical chemical properties of nanoparticles: **No Data**

Limiting oxygen concentration: **No Data**

Bulk density: **48-65 LBS/ft³**

Solubility in different media: **No Data**

Stability in organic solvents and identity of relevant degradation products: **No Data**

Evaporation rate: **No Data**

Conductivity: **No Data**

Surface tension: **No Data**

Dissociation constant in water (pKa): **No Data**

Oxidation-reduction Potential: **No Data**

Fat solubility (solvent – oil to be specified): **No Data**

Critical temperature: **No Data**

Section 10: Stability and reactivity

10.1 Reactivity:

Decomposes by reaction with strong acids.

10.2 Chemical stability:

Stable under recommended storage conditions.

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10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid:

Exposure to moisture.

10.5 Incompatible materials:

Finely divided aluminum, reacts with strong acids. Can react violently with Al, P2O5, H2SO4, F2, Li and 2,4,6-Trinitrotoluene. Upon contact with reducing sugars, may react to form carbon monoxide gas.

10.6 Hazardous decomposition products:

None

Section 11: Toxicological Information

11.1 Information on toxicological effects:

	Effect dose / Concentration	Species	Method	Time
Acute oral toxicity	4090 mg/kg	Rat	LD50	
Acute dermal toxicity	>2000 mg/kg	Rabbit	LD50	
Acute inhalative toxicity (mist)	2300 mg/m3 air	Rat	LC50	2 hours

11.2 Other information:

11.2.1 Assessment/classification

11.2.2 Routes of exposure:

11.2.3 In case of ingestion:

May cause burns of the mouth, throat, esophagus and diarrhea if large quantities are ingested.

11.2.3 In case of skin contact:

May cause skin irritation seen as redness and swelling. In the presence of moisture or sweat, may cause more severe irritation, including burns, following prolonged contact.

11.2.4 In case of inhalation:

May be irritating to the nose, throat, and respiratory tract.

11.2.5 In case of eye contact:

May cause eye irritation. No significant adverse effects expected.

Section 12: Ecological information

12.1 Toxicity:

Aquatic toxicity

12.1.1 Substances

Acute (short-term) toxicity

Effect dose	Exposure time	Species	Method	Evaluation	Remark
300 mg/L	96 Hours	Lepomis macrochirus	LC50	Mortality	
200 227 mg/L	48 Hours	Ceriodaphnia sp.	EC50	Mobility	

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Section 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product/packaging disposal:

Contact waste disposal services. If recycling is not practicable, dispose of in compliance with local regulations. Dilute with plenty of water. Neutralize with acid.

Where possible recycling is preferred to disposal or incineration. Clean container with water. Dispose of rinse water in accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

13.1.2 Waste codes/waste designations according to EWC/AVV:

20 01 30

13.1.3 Waste treatment options:

13.1.4 Other disposal recommendations:

Dispose of in accordance with local, State, and National regulations.

13.2 Additional information:

Section 14: Transport Information

14.1 Land transport (CFR 49: DOT)

This product is not regulated as a hazardous material by DOT standards.

UN-No:

Proper shipping name:

Class(es):

Packing group:

Hazard label(s)

Special provision(s):

14.2 Land Transport (Canada TDG)

This product is not regulated as a hazardous material by TDG standards.

UN-No:

Proper shipping name:

Class(es)

Packing group:

Hazard label(s)

Special provision(s)

14.3 Land transport (ADR/RID/GGVSEB):

This product is not regulated as a hazardous material by ADR standards.

UN-No:

Proper shipping name:

Class(es):

Classification Code:

Packing group:

Hazard label(s):

Special provision(s):

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14.4 Sea transport (IMDG-Code/GGVSee):

This product is not regulated as a hazardous material by IMO standards.

UN No:

Proper shipping name:

Class(es):

Packing group:

Marine Pollutant:

Special provision(s):

14.5 Air transport (ICAO-IATA/DGR):

This product is not regulated as a hazardous material by IATA standards.

UN No:

Proper shipping name:

Class(es):

Packing group:

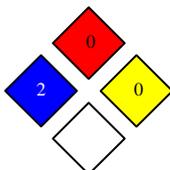
Special provision(s):

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 National regulations(United States):

HMIS Code:



NFPA Code

Health	2
Flammability	0
Physical Hazard	0
	X

TSCA: All components are on the SU TSCA Inventory.

15.1.2 National regulations(EU):

EU Hazard Classification: Xi: Irritant

EU R-Statements: R36/37/38

EU S-Statements: S2, S22, S24/25

WGK (Water Danger/Protection)

Water Hazard Class: 1

15.1.3 National regulations(Canada):

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List: All components are listed on the Canadian Ingredient Disclosure list.

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Section 16: Other Information

16.1 Relevant R-, H- and EUH-phrases (number and full text):

R36: Irritating to eyes

R36/37/38: Irritating to eyes, respiratory system and skin

S2: Keep out of the reach of children

S22: Do not breathe dust

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S24/25: Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves.

H303: May be harmful if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

P264: Wash hands thoroughly after handling.

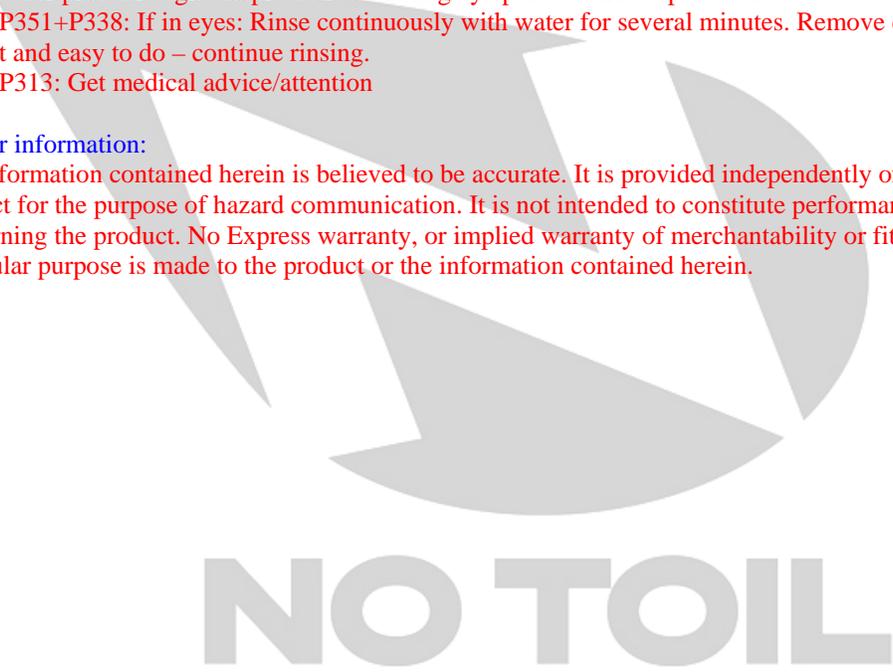
P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338: If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: Get medical advice/attention

16.2 Further information:

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for the purpose of hazard communication. It is not intended to constitute performance information concerning the product. No Express warranty, or implied warranty of merchantability or fitness for a particular purpose is made to the product or the information contained herein.



NO TOIL

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: No-Toil Biodegradable Foam Filter Oil

Product. No: NT-201/NT-218

Specification No:

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

1.1.1 Trade name/designation:

No-Toil Biodegradable Foam Filter Oil

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

1.2.1 Relevant identified uses:

Foam air filter oil

1.2.2 Uses advised against:

All others not listed above

1.3 Details of the supplier

1.3.1 Supplier:

No Toil Industries

1.3.2 US Address

1327 Harter Rd.

Yuba City, CA 95993

1.3.3 US Phone

(530)671-4645

1.4 Emergency Telephone Number

CHEMTREC: 1(800)424-9300

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

3A: Flammable liquid materials with a flashpoint below 55C

2.1.2 Classification according to 67/548/EEC or 1999/45/EC

Xi, F

2.1.3 Additional information:

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) No 1272/2008

Product identifier: No-Toil Biodegradable Foam Filter Oil

Hazard pictograms:

Xi: Irritant



F: Highly Flammable



Signal word:

Warning!

Hazard statements:

H227

H316

H320

H333

H335

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Precautionary statements:

P101

P102

P233

P262

P270

P281

2.3 Other hazards

Adverse physicochemical effects:

Adverse human health effects and symptoms:

Eye Contact: Exposure can cause eye irritation. Symptoms may include stinging, tearing, redness and swelling.

Skin contact: Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking, and skin burns. Pre-existing skin disorders may be aggravated by exposure to this material. Skin absorption possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Inhalation: Exposure to vapor or mist is possible. Short term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects; Breathing large amounts may be harmful. Symptoms of enclosure may include:

Irritation (nose, throat, respiratory tract) pre-existing lung disorders e.g. Asthma-like conditions may be aggravated by exposure to this material.

Impaired coordination

Confusion

Central Nervous System Depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness)

Low blood pressure

Coma

Ingestion: Single dose oral toxicity is low, swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. Symptoms may include:

Gastrointestinal irritation (nausea, vomiting, diarrhea)

Impaired coordination

Central Nervous System depression

Respiratory depression

Low blood pressure

Effects on heart rate

Mild, reversible liver effects

Pulmonary edema

Adverse environmental effects:

Other adverse hazards:

Section 3: Composition/information on ingredients

3.1 Description of the mixture:

AS No	C	EC No	INDEX No	REACH No	% [weight]	Name	Classification according to 67/548/EEC
67-63-0		200-661-7			24	Iropropanol	Xi, F, R11, R36, R67, S16, S24/25, S26, S7
61788-89-4		500-148-0			70	Carboxylic Acid	

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Section 4: First Aid Measures

4.1 Description of first aid measures

4.1.1 Eye contact:

If symptoms develop, move individual away from exposure and into fresh air, flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

4.1.2 Inhalation:

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

4.1.3 Skin contact:

Remove contaminated clothing; wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

4.1.4 Ingestion:

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth. Place individual on the left side with the head down. If individual is conscious and alert, induce vomiting by giving syrup of ipecac or by gently placing two fingers at the back of the throat. If possible, do not leave individual unattended.

Section 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Alcohol foam, CO₂, Dry Chemicals

5.1.2 Unsuitable extinguishing media:

Water may not be effective for fighting fires; water may be used to keep fire-exposed containers cool until fire is out.

5.2 Special hazards arising from the substance or mixture

5.2.1 Hazardous combustion products:

May form toxic materials; carbon dioxide and carbon monoxide.

5.3 Advice for fire-fighters:

Wear self contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

5.4 Additional information:

Never use welding or cutting torch on or near cases of product because product can ignite explosively.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment:

Gloves, protective clothing

6.1.2 For emergency responders

Personal protective equipment:

Gloves, protective clothing, boots, respirator if necessary.

6.2 Environmental precautions:

Prevent run-off to sewers, streams and other bodies of water.

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6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Absorb liquid with absorbent material.

6.3.2 For cleaning up:

Dispose of waste in a properly marked container.

6.4 Additional information:

Follow all local, State, and Federal regulations.

Section 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective measures:

7.1.1.1 Fire preventions:

Keep away from any form of flame or extreme heat.

7.1.2 Advice on general occupational hygiene

Provide readily accessible eye wash stations & safety showers

Wash at end of each work shift & before eating, smoking, or using the toilet.

Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep away from any form of flame or extreme heat.

Keep away from strong oxidizing agents, acids, chlorine, acetaldehyde, ethylene oxide, and Isocyanates.

Packaging materials:

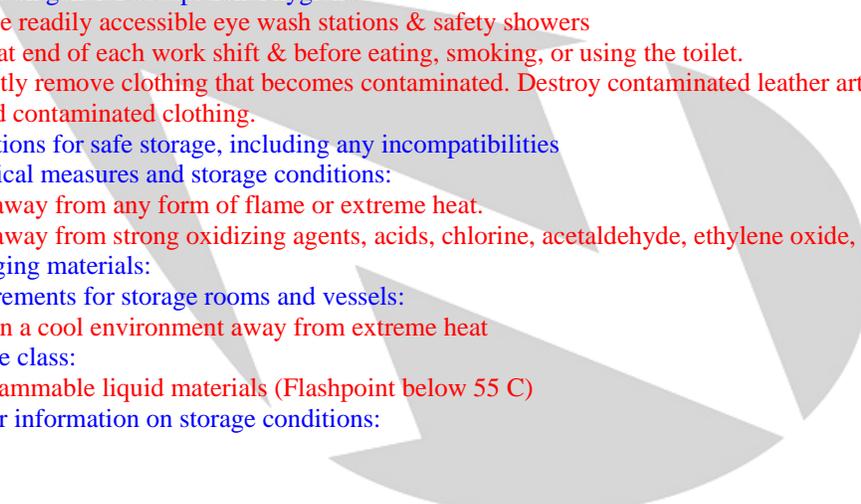
Requirements for storage rooms and vessels:

Store in a cool environment away from extreme heat

Storage class:

3A: Flammable liquid materials (Flashpoint below 55 C)

Further information on storage conditions:



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Section 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits:

Limit value type (country of origin)	Substance name	EC-No.	CAS-No	Limit value	Monitoring and observation processes
TWA (AU)	Isopropanol	200-661-7	67-63-0	400 ppm	
STEL (AU)				500 ppm	
TWA (BE)				400 ppm	
STEL (BE)				500 ppm	
TWA (DK)				200 ppm	
STEL (FR)				400 ppm	
TWA (DE)				400 ppm	
STEL (JP)				400 ppm	
TWA (NTH)				400 ppm	
TWA (PI)				400 ppm	
STEL (RU)				400 ppm	
TWA (SW)				150 ppm	
STEL (SW)				250 ppm	
TWA (CH)				400 ppm	
STEL (CH)				800 ppm	
TWA (TU)				200 ppm	
TWA (UK)				400 ppm	
STEL (UK)				500 ppm	

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Provide adequate ventilation to maintain airborne levels below recommended exposure limits.

8.2.2 Personal protective equipment:

8.2.2.1 Eye/Face protection:

Use appropriate PPE to prevent splashing into eyes.

8.2.2.2 Skin protection:

Gloves (vinyl, Nitrile, Latex, ETC.) should be used if there will be direct contact with product.

8.2.2.3 Respiratory protection:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

8.2.2.4 Thermal hazards:

May form toxic materials; carbon monoxide and carbon dioxide

8.2.3 Environmental exposure controls:

Prevent from reaching ground water or waste water system.

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Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: **Liquid** Color: **Red** Odor: **Slight Alcohol odor** Odor threshold:

9.1.2 Safety relevant basic data

pH (20 °C): **No Data**

Melting point/range(°C): **No Data**

Initial boiling point/range (°C): **82.22 @760mm Hg**

Decomposition temperature (°C): **No Data**

Flash point (°C): **20**

Ignition temperature (°C): **No Data**

Vapor pressure (hPa): **33.00**

Vapor density (air = 1): **2.07**

Density (g/cm³)at °C: **No Data**

Bulk density (kg/m³): **No Data**

Water solubility (20°C in g/l): **No Data**

Solubility(ies): **No Data**

Partition coefficient: **No Data**

N-Octanol/Water (log Po/w): **No Data**

Viscosity, dynamic (mPa s): **No Data**

9.1.3 Physical hazards:

Flammable liquids

9.2 Other safety information:

Properties of explosive atmospheres (mixtures):

Gases and vapors: **No Data**

Dusts: **No Data**

Physical chemical properties of nanoparticles: **No Data**

Limiting oxygen concentration: **No Data**

Bulk density: **No Data**

Solubility in different media: **No Data**

Stability in organic solvents and identity of relevant degradation products: **No Data**

Evaporation rate: **7.70**

Conductivity: **No Data**

Surface tension: **No Data**

Dissociation constant in water (pKa): **No Data**

Oxidation-reduction Potential: **No Data**

Fat solubility (solvent – oil to be specified): **No Data**

Critical temperature: **No Data**

Safety Data Sheet

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Section 10: Stability and reactivity

- 10.1 Reactivity:
Not Reactive
- 10.2 Chemical stability:
Stable
- 10.3 Possibility of hazardous reactions
Will not occur
- 10.4 Conditions to avoid:
Do not use with aluminum equipment at temperature above 120F.
- 10.5 Incompatible materials:
Strong oxidizing agents, acids, chlorine, acetaldehyde, ethylene oxide, and isocyanates
- 10.6 Hazardous decomposition products:
May form toxic materials; carbon dioxide and carbon monoxide.

Section 11: Toxicological Information

11.1 Information on toxicological effects:

	Effect dose / Concentration	Species	Method	Time
Acute oral toxicity	3600 mg/kg	Mouse	LD50	
Acute dermal toxicity	12800 mg/kg	Rabbit	LD50	
Acute inhalative toxicity (gas)				
Acute inhalative toxicity (vapor)				
Acute inhalative toxicity (dust/mist)				

11.2 Other information:

11.2.1 Assessment/classification

Class 3A: Flammable liquid materials with a flashpoint below 55 C

11.2.2 Routes of exposure:

Absorbed through skin, dermal contact, eye contact, and inhalation

11.2.3 In case of ingestion:

Single dose oral toxicity is low, swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. Symptoms may include:

Gastrointestinal irritation (Nausea, vomiting, diarrhea)

Impaired coordination

Central Nervous System depression

Respiratory depression

Low blood pressure

Effects on heart rate

Mild, reversible liver effects

Pulmonary edema

11.2.3 In case of skin contact:

Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking and skin burns. Pre-existing skin disorders may be aggravated by exposure to this material. Skin absorption possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

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11.2.4 In case of inhalation:

Exposure to vapor or mist is possible. Short term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects: breathing large amounts may be harmful. Symptoms of exposure may include:

Irritation (nose, throat, respiratory tract) pre-existing lung disorders e.g. asthma-like conditions may be aggravated by exposure to this material.

Impaired coordination

Confusion

Central Nervous System depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness)

Low blood pressure

Coma

11.2.5 In case of eye contact:

Exposure can cause eye irritation. Symptoms may including stinging, tearing, redness and swelling.

Section 12: Ecological information

12.1 Toxicity:

Aquatic toxicity

When spilled this product may act as an oil, causing a film, sheen, emulsion, or sludge at or beneath the surface of a body of water.

12.1.1 Substances

Acute (short-term) toxicity

Effect dose	Exposure time	Species	Method	Evaluation	Remark
100000 mg/L	96 Hours	Fathead Minnow	LC50		
			EC50		
			IC50		

Section 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Water Hazard Class:

WGK 2

13.1.2 Waste codes/waste designations according to EWC/AVV:

16 01 99

13.2 Additional information:

Dispose of in a manner consistent with Federal, State, and Local regulations.

Section 14: Transport Information

14.1 Land transport (CFR 49: DOT)

Containers less than 2 liters are considered a Consumer Commodity (ORM-D)

Larger than 2 liters are as follows:

UN-No: UN1219

Proper shipping name: Isopropanol Solution

Class (es): 3

Packing group: II

Hazard label(s): 3

Special provision(s): IB2, T4, TP1

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14.2 Land transport (ADR/RID/GGVSEB):
UN-No: UN1219
Proper shipping name: Isopropanol Solution
Class (es): 3
Classification Code: F1
Packing group: II
Hazard label(s): 3
Special provision(s): 601

14.3 Sea transport (IMDG-Code/GGVSee):
UN No: UN1219
Proper shipping name: Isopropanol Solution
Class (es): 3
Packing group: II
Marine Pollutant: No
Special provision(s): -

14.4 Air transport (ICAO-IATA/DGR):
UN No: UN1219
Proper shipping name: Isopropanol Solution
Class (es): 3
Packing group: II
Special provision(s): A180

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the mixture

15.1.1 National regulations(United States):

OSHA: Hazardous by definition of hazard communication standard (29 CFR 1920.1200)

TSCA:

The components of this product are listed on the TSCA inventory.

None of the chemicals are listed under TSCA Section 12b

CERCLA Hazardous substances and corresponding RQs

None of the chemicals in this material have an RQ

SARA Section 302 Extremely Hazardous Substances:

None of the chemicals in this product have a TPQ

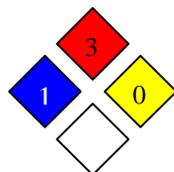
SARA Codes

Isopropanol: Acute, chronic, flammable

STATE:

Isopropanol can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

HMIS:



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15.1.2 National regulations(EU):

EINECS: This product is on the European inventory of existing commercial chemical substances.

EU Classification: Xi, F

EU Risk Phrases: R11, R36

EU Safety Phrases: S16, S24/25, S26, S7

15.1.3 National regulations(Canada):

Class B2: flammable liquid with flash point lower than 37.8 C.

Class D-2b: Material causing other toxic effects

Section 16: Other Information

16.1 Relevant R-, H- and EUH-phrases (number and full text):

Hazard statements:

H227: Combustible liquid

H316: Causes mild skin irritation

H320: Causes eye irritation

H333: May be harmful if inhaled

H335: May cause respiratory irritation

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P233: Keep container tightly closed

P262: Do not get in eyes, on skin, or on clothing

P270: Do not eat, drink or smoke when using this product

P281: Use personal protective equipment as required

R-Phrases

R11: Highly flammable

R36: Irritating to eyes

S-Phrases

S7: Keep container tightly closed

S16: Keep away from sources of ignition – No smoking

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

16.2 Further information:

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for the purpose of hazard communication. It is not intended to constitute performance information concerning the product. No Express warranty, or implied warranty of merchantability or fitness for a particular purpose is made to the product or the information contained herein.