

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Page 1/6

## Freeze Off

Revision date 2014-08-06

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

#### 1.1. Product identifier

Product name Freeze Off

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

Description Aerosol.

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

**Company** Tough Technology Products Limited  
**Address** Eaton Place Business Centre  
114 Washway Road  
Sale  
Cheshire  
M33 7RF  
United Kingdom  
**Web** www.ttproducts.com  
**Telephone** +44 800 772 0996  
**Email** sales@ttproducts.com  
**Email address of the competent person** brendanl@ttproducts.com

#### 1.4. Emergency telephone number

Emergency telephone number +44 800 772 0996  
9.00am - 5.00pm Mon-Fri

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**2.1.1. Classification - 67/548/EEC** F+; R12 Xi; R36 R67  
Symbols: F+: Extremely flammable. Xi: Irritant.  
**Main hazards** Extremely flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.  
**2.1.2. Classification - EC 1272/2008** Aerosols 1: H222; Aerosol 1, 2, 3: H229; Eye Irrit. 2: H319; STOT SE 3: H336;

#### 2.2. Label elements

Hazard pictograms Contains: Isopropanol.



Signal Word Danger

Hazard Statement Aerosols 1: H222 - Extremely flammable aerosol.  
Aerosols, 1, 2, 3: H229 - Pressurised container: May burst if heated.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
STOT SE 3: H336 - May cause drowsiness or dizziness.

Print date 2014-08-06

# Freeze Off

Revision date 2014-08-06

## 2.2. Label elements

<b>Precautionary Statement: Prevention</b>	P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Storage</b>	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

## 2.3. Other hazards

<b>Other hazards</b>	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P337+P313 - If eye irritation persists: Get medical advice/attention. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to / in accordance with national regulations.
----------------------	---

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Butane	601-004-00-0	106-97-8	203-448-7	01-2119474691-32	30 - 40%	F+; R12
Propane	601-003-00-5	74-98-6	200-827-9	01-2119486944-21	30 - 40%	F+; R12
Isopropanol (Propan-2-ol)	603-117-00-0	67-63-0	200-661-7	01-2119457558-25	20 - 30%	F; R11 Xi; R36 R67
Acetone	606-001-00-8	67-64-1	200-662-2	01-2119471330-49	1 - 10%	F; R11 Xi; R36 R66 R67
White Medicinal Oil		8042-47-5	232-455-8		1 - 10%	Xn; R65

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Butane	601-004-00-0	106-97-8	203-448-7	01-2119474691-32	30 - 40%	Flam. Gas 1: H220;
Propane	601-003-00-5	74-98-6	200-827-9	01-2119486944-21	30 - 40%	Flam. Gas 1: H220;
Isopropanol (Propan-2-ol)	603-117-00-0	67-63-0	200-661-7	01-2119457558-25	20 - 30%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
Acetone	606-001-00-8	67-64-1	200-662-2	01-2119471330-49	1 - 10%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
White Medicinal Oil		8042-47-5	232-455-8		1 - 10%	Asp. Tox. 1: H304;

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air.
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
<b>Skin contact</b>	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
<b>Ingestion</b>	DO NOT INDUCE VOMITING.

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

<b>Inhalation</b>	May cause irritation to respiratory system.
<b>Eye contact</b>	May cause irritation to eyes.
<b>Skin contact</b>	May cause irritation to skin.
<b>Ingestion</b>	May cause irritation to mucous membranes.

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

Print date 2014-08-06

# Freeze Off

Revision date 2014-08-06

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

Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Seek medical attention if irritation or symptoms persist.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
--	---

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

	Burning produces irritating, toxic and obnoxious fumes.
--	---

### 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
--	---

## SECTION 6: Accidental release measures

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

	Ensure adequate ventilation of the working area.
--	--

### 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
--	---

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

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
--	---

### 6.4. Reference to other sections

	See section 8 and 13 for further information.
--	---

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
--	--

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

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
--	--

### 7.3. Specific end use(s)

	No data is available on this product.
--	---------------------------------------

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

	Occupational exposure controls.
--	---------------------------------

#### 8.1.1. Exposure Limit Values

Acetone	WEL 8-hr limit ppm: 500	WEL 8-hr limit mg/m3: 1210
	WEL 15 min limit ppm: 1500	WEL 15 min limit mg/m3: 3620
Butane	WEL 8-hr limit ppm: 600	WEL 8-hr limit mg/m3: 1450
	WEL 15 min limit ppm: 750	WEL 15 min limit mg/m3: 1810
Isopropanol (Propan-2-ol)	WEL 8-hr limit ppm: 400	WEL 8-hr limit mg/m3: 999
	WEL 15 min limit ppm: 500	WEL 15 min limit mg/m3: 1250

### 8.2. Exposure controls

Print date 2014-08-06

# Freeze Off

Revision date 2014-08-06

## 8.2. Exposure controls



### 8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

### 8.2.2. Individual protection measures

Wear protective clothing.

#### Eye / face protection

In case of splashing, wear:.. Approved safety goggles.

#### Skin protection - Handprotection

Chemical resistant gloves (PVC).

## SECTION 9: Physical and chemical properties

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

State	Aerosol
Colour	Clear
Odour	Aromatic

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

Burning produces obnoxious and irritating fumes.

## SECTION 11: Toxicological information

### 11.1.4. Toxicological Information

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data is available on this product.

### 12.3. Bioaccumulative potential

No data is available on this product.

### 12.4. Mobility in soil

No data is available on this product.

### 12.5. Results of PBT and vPvB assessment

No data available.

Print date 2014-08-06

## Freeze Off

Revision date 2014-08-06

## 12.6. Other adverse effects

No data available.

**SECTION 13: Disposal considerations**

## General information

Dispose of in compliance with all local and national regulations.

## Disposal methods

Contact a licensed waste disposal company.

## Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

**SECTION 14: Transport information**

## Hazard pictograms



## 14.1. UN number

UN1950

## 14.2. UN proper shipping name

AEROSOLS

## 14.3. Transport hazard class(es)

ADR/RID	2
Subsidiary risk	see SP63
IMDG	2
Subsidiary risk	see SP63
IATA	2
Subsidiary risk	see SP63

## 14.4. Packing group

Packing group -

## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## ADR/RID

Hazard ID	-
Tunnel Category	(D)

## IMDG

EmS Code	F-D S-U
----------	---------

## IATA

Packing Instruction (Cargo)	203
Maximum quantity	150 kg
Packing Instruction (Passenger)	203
Maximum quantity	75 kg

**SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Print date 2014-08-06

# Freeze Off

Revision date 2014-08-06

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Regulations</b>	<p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> <p>REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p>
--------------------	--

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out on this product.

## SECTION 16: Other information

### Other information

<b>Text of risk phrases in Section 3</b>	<p>R11 - Highly flammable.  R12 - Extremely flammable.  R36 - Irritating to eyes.  R65 - Harmful: may cause lung damage if swallowed.  R66 - Repeated exposure may cause skin dryness or cracking.  R67 - Vapours may cause drowsiness and dizziness.</p>
<b>Text of Hazard Statements in Section 3</b>	<p>Flam. Gas 1: H220 - Extremely flammable gas.  Flam. Liq. 2: H225 - Highly flammable liquid and vapour.  Eye Irrit. 2: H319 - Causes serious eye irritation.  STOT SE 3: H336 - May cause drowsiness or dizziness.  EUH066 - Repeated exposure may cause skin dryness or cracking.  Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.</p>

### Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Print date 2014-08-06