

Power Jet De-icer

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

1.1 Product Identifier

Material name : Powerjet De-icer

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

Product use : Water free de-icer for windscreens, hinges, locks and other mechanisms.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: IMG Ltd.,
 Unit M
 Riverside Industrial Estate
 Fazeley
 Tamworth
 B78 3RW

Tel. : 01827 283322

Fax. : 01827 250143

Email (for SDSs) : sales@img-limited.co.uk

1.4 Emergency tel. no.: 01827 283322 (Available from 08.30-17.00 hours).

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Physical and Chemical Hazards	Flam.Aerosol 1; H222; H229
Human health	Eye Irrit.2; H319; STOT SE3, H336
Environment	Not classified

2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC

Signal word: Danger Contains: Propan-2-ol

Pictogram(s):



H-Statements:	H222	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness
P-Statements:	P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	P211	Do not spray on an open flame or other ignition source.
	P251	Pressurised container: Do not pierce or burn, even after use.
	P261	Avoid breathing vapour/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+313	If eye irritation persists, get medical advice/attention.
	P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
	P501	Dispose of contents/container in accordance with national regulations.

2.3 Other hazards: In use, may form flammable / explosive vapour-air mixture.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool containers. Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections: See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area, below 50°C. Protect from frost, heat and sunlight. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Reference
Propan-2-ol	999 mg/m ³ /400 ppm	1250 mg/m ³ /500 ppm	EH40/2005
Butane/Isobutane	1450 mg m ⁻³ /600ppm	1810 mg m ⁻³ /750 ppm	EH40/2005
Ethanediol	52 mg m ⁻³	104 mg m ⁻³ (Sk)	EH40/2005

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: Given the product usage, unlikely to be necessary.

Hand protection: PVC, Neoprene or Nitrile Rubber gloves approved to EN374 standard; check with glove manufacturer for specific advice. Gloves should only be worn on clean hands. Replace worn gloves. Wash and dry gloves after use. (Sk) noted above means can be absorbed through skin.

Eye protection: Chemical splash goggles and/or face shield approved to EN166 should be worn.

Skin and body protection: Protective overalls. The selected protective clothing has to satisfy the standard EN 13034, which describes clothing offering limited 8 hour protection against splashes.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour	Aerosol emitting a colourless spray.
Odour	Alcoholic
Odour Threshold	No data available
Flammability	Extremely flammable
Flash point	<0°C
Lower explosion limit	0.8%
Upper explosion limit	12.0%
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	No data available
Oxidising properties	Non-oxidising
Solubility in water	Miscible
Solubility in other solvents	Soluble in alcohols.
pH	Not applicable
Melting point/range	No data available
Boiling point/range	No data available
Density	No data available
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	No data available
Evaporation rate	No data available

9.2 Other information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous decomposition products	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Propan-2-ol	>2000 mg/kg (Rat)	No data available.	>2000 mg/kg (Rabbit)
Butane/Isobutane	Not applicable	>20mg/l (Rat) 4h	Not applicable

Skin corrosion/irritation:	Not classed as a skin irritant.
Serious eye damage/eye irritation:	Classed as an eye irritant.
Respiratory or skin sensitisation:	Not classed as a respiratory irritant or skin sensitiser.
Repeated dose toxicity:	No data available.
Carcinogenicity:	Not carcinogenic.
Mutagenicity:	Not mutagenic.
Toxicity for reproduction:	Not expected to impair fertility.
Specific target organ toxicity (STOT):	Inhalation of high levels of vapour may cause drowsiness or dizziness.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical name	Species	Test	Value
Propan-2-ol	Daphnia	EC50 48h	>100 mg/l
	Golden ide	LC50 48h	>100 mg/l
	Algae	EC50 72h	>100 mg/l

12.2 Persistence and degradability	The aerosol contents are expected to be biodegradable.
12.3 Bioaccumulative potential	Low bioaccumulation potential.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	Not considered to be PBT or vPvB.
12.6 Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations.
 Contact licensed waste disposal company. Most aerosols can be recycled.
 Do not pierce or burn or use a cutting torch on the empty aerosol container.

14. TRANSPORT INFORMATION

General Information: The UN number for all aerosols is 1950. Aerosols packed in fibreboard cartons up to 30 kg gross weight, or shrink/stretch wrapped onto trays up to 20 kg gross weight may be transported as Limited Quantities, and should display the following symbol on the pack:



The following information relates to all other aerosols not transported as Limited Quantities:

14.1 UN number: ADR/RID/ADN; IMDG; ICAO: 1950

14.2 UN proper shipping name: AEROSOLS

14.3 Transport hazard class(es): ADR/RID/ADN Class: 2, 5F

ADR/RID/ADN Class: Class 2, Gases

ADR Label No.: 2.1

IMDG Class: 2

ICAO Class/Division: 2

ICAO Subsidiary risk: 2.1



Transport labels

14.4 Packing Group: ADR/RID/ADN; IMDG; ICAO: Not applicable for aerosols

14.5 Environment hazards: Marine Pollutant: Not applicable for aerosols.

14.6 Special precautions for user: EMS: F-D,S-U

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for aerosols.

15. REGULATORY INFORMATION

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

UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation EU 453/2010 amending Regulation (EC) No 1907/2006.

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals) as amended and Regulation EU 453/2010.

Tariff number: 34039100.

Full text of H-statements referred to under sections 2 and 3

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: may burst if heated.
- H302 Harmful if swallowed.
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.

STOT: Single Target Organ Toxicity (Section 11).

TWA: Time-weighted average. (Section 8).

STEL: Short-term exposure limit. (Section 8).

PBT: Persistent, Bioaccumulative, Toxic. (Section 12).

vPvB: very Persistent and very Bioaccumulative. (Section 12).

EC50: Effective Concentration, 50 percent. (Section 12).

LC50: Lethal Concentration, 50 percent. (Section 11/12).

LD50: Lethal Dose, 50 percent. (Section 11).

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.