

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Decosol Power De-icer
Product No. AD22P

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

Identified uses Screenwash additive

1.3. Details of the supplier of the safety data sheet

Selden Research Limited t : 01298 26226
Staden Lane
Ashbourne Road f : 01298 26540
Buxton
Derbyshire
SK17 9RZ e : safety@selden.co.uk
United Kingdom

1.4. Emergency telephone number

01298 26226

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (67/548/EEC) R10.

2.2. Label elements

Risk Phrases R10 Flammable.
Safety Phrases S2 Keep out of the reach of children.
 S46 If swallowed
 Seek medical advice immediately and show this container or label.
 S51 Use only in well-ventilated areas.

2.3. Other hazards

No other hazards known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not Applicable

3.2. Mixtures

ETHANEDIOL	10-30%
CAS-No.: 107-21-1	EEC (EINECS) No. 203-473-3
Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute toxicity, category 4 - Oral - H302	Xn;R22
METHANOL	1-5%
CAS-No.: 67-56-1	EEC (EINECS) No. 200-659-6
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flammable liquids, category 2 - H225	F;R11
Acute toxicity, category 3 - inhalation - H331	T;R23/24/25,R39/23/24/25
Acute toxicity, category 3 - Dermal - H311	
Acute toxicity, category 3 - Oral - H301	
STOT***, single exposure, category 1 - H370	
Acute toxicity, category 3 - inhalation - H331	
PROPAN-2-OL	1-5%
CAS-No.: 67-63-0	EEC (EINECS) No. 200-661-7
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flammable liquids, category 2 - H225	F;R11

Eye irritation, category 2 - H319
STOT***, single exposure, category 3 - Narcotic effects - H336

Xi;R36
R67

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Inhalation	Move the exposed person to fresh air at once., Keep the affected person warm and at rest. Get prompt medical attention.
Ingestion	DO NOT INDUCE VOMITING!, NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!, Rinse mouth thoroughly., Provide fresh air, warmth and rest, preferably in comfortable upright sitting position., Get medical attention immediately!
Skin contact	Remove affected person from source of contamination., Remove contaminated clothing., Wash the skin immediately with soap and water., Get medical attention promptly if symptoms occur after washing.
Eye contact	Make sure to remove any contact lenses from the eyes before rinsing., Promptly wash eyes with plenty of water while lifting the eye lids., Continue to rinse for at least 15 minutes., Get medical attention if any discomfort continues.

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

Inhalation	Vapour may irritate respiratory system or lungs., Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication.
Ingestion	May cause nausea, headache, dizziness and intoxication., May irritate and cause stomach pain, vomiting and diarrhoea.
Skin contact	Acts as a defatting agent on skin. May cause cracking of skin, and eczema.
Eye contact	Irritation of eyes and mucous membranes.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media	Fire can be extinguished using:, Alcohol resistant foam., Dry chemicals, sand, dolomite etc.
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5.2. Special hazards arising from the substance or mixture

Unsuitable extinguishing media

5.3. Advice for firefighters

Special Fire Fighting Procedures	Self contained breathing apparatus and full protective clothing must be worn in case of fire. Use water to keep fire exposed containers cool and disperse vapours., Move container from fire area if it can be done without risk.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Remove sources of ignition., Provide ventilation and confine spill. Do not allow runoff to sewer., Absorb in vermiculite, dry sand or earth and place into containers., Wash thoroughly after dealing with a spillage.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat, sparks and open flame., Avoid spilling, skin and eye contact., Avoid spraying near flames or other sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place., Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Not applicable

8.2. Exposure controls

Protective equipment



Hand protection

Use protective gloves made of: , Nitrile., Rubber (natural, latex).

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA!, Wash hands at the end of each work shift and before eating, smoking and using the toilet., Promptly remove any clothing that becomes contaminated., When using do not eat, drink or smoke., Wash hands after contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Blue.
Odour	Slight odour of alcohol.
Relative density	0.96@ 20 Celcius
pH-Value, Conc. Solution	7.0 - 9.0
Flash point (°C)	28

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal temperature conditions.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

None known

10.4. Conditions to avoid

Avoid contact with strong oxidisers., Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Strong oxidising substances.

10.6. Hazardous decomposition products

Fire creates: , Toxic gases/vapours/fumes of: , Carbon monoxide (CO) , Carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information	No toxicological data is available for this mixture, however data can be provided for specific raw materials upon request.
Inhalation	Vapour may irritate respiratory system or lungs. , Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication.
Ingestion	May cause nausea, headache, dizziness and intoxication. , May irritate and cause stomach pain, vomiting and diarrhoea.
Skin contact	Acts as a defatting agent on skin. May cause cracking of skin, and eczema.
Eye contact	Irritation of eyes and mucous membranes.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not classed as Hazardous to the Environment but release to the environment should be avoided.

12.2. Persistence and degradability

Degradability	The product is easily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
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12.4. Mobility in soil

Mobility:	The product contains substances, which are water soluble and may spread in water systems.
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12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or PvB substances

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. , Do not allow runoff to sewer, waterway or ground.

SECTION 14: TRANSPORT INFORMATION

General	Derogation for Limited Quantities may be applicable to appropriate pack sizes, please check relevant modal legislation.
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14.1. UN number

UN No. (ADR/RID/ADN)	1170
UN No. (IMDG)	1170
UN No. (ICAO)	1170

14.2. UN proper shipping name

Proper Shipping Name:	ETHANOL SOLUTION
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.

IMDG Class 3
ICAO Class/Division 3

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO Packing group III

14.5. Environmental hazards

Environmentally Hazardous substance/Marine Pollutant No

14.6. Special precautions for user

Tunnel Restriction Code D/

SECTION 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 2002 No. 2677) with amendments.
Environmental Listing	Rivers (Prevention of Pollution) Act 1961., Control of Pollution (Special Waste Regulations) Act 1980.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Approved Code Of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply.
Guidance Notes	Workplace Exposure Limits EH40., Introduction to Local Exhaust Ventilation HS(G)37., CHIP for everyone HSG (108). System of specific information relating to Dangerous Preparations. 2001/58/EC., Dangerous Preparations Directive 1999/45/EC., 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, including amendments., Regulation (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.
EU Legislation	
National Regulations	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 (CDG 2007).

15.2. Chemical Safety Assessment

No chemical assessment has been carried out as this Safety Data Sheet is for a mixture

SECTION 16: OTHER INFORMATION

General information

The following risk phrases relate to the raw materials in the product and not the product itself:-

Revision Comments

Safety Data Sheet revised to be in accordance with EU Regulation No 453/2010 - REACH Regulations.

Revision Date 12/04/2012

Revision 4

Risk Phrases In Full R11 Highly flammable, R23/24/25 Toxic by inhalation, in contact with skin and if swallowed., R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. | R11 Highly flammable, R36 Irritating to eyes., R67 Vapours may cause drowsiness and dizziness. | R22 Harmful if swallowed. |

Hazard Statements In Full
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H370 Causes damage to organs .