



SAFETY DATA SHEET

Holts -15°C Deicer

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	Holts -15°C Deicer		
SUPPLIER	Holt Lloyd International Ltd Barton Dock Road Stretford Manchester M32 0YQ - England, UK +44 (0) 161 866 4800 FAX +44 (0) 161 866 4854 A Honeywell Consumer Products Group Company www.holtsauto.com	MANUFACTURER	Holt Lloyd International Ltd Barton Dock Road Stretford Manchester M32 0YQ - England, UK +44 (0) 161 866 4800 FAX +44 (0) 161 866 4854 A Honeywell Consumer Products Group Company www.holtsauto.com
PRODUCT NO.	DI3, DI6, DI3A, DI6A, DI6B, BQDI6, TWINKIT, UDI300, UDI600, DBB9		
CONTACT PERSON	Regulatory Affairs		
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2 HAZARDS IDENTIFICATION

Extremely flammable. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

CLASSIFICATION (1999/45) Xn;R20/21/22, R68/20/21/22. F+;R12.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
ETHANOL	200-578-6	64-17-5	10-30%	F;R11
METHANOL	200-659-6	67-56-1	5-10%	T;R23/24/25,R39/23/24/25. F;R11.
ETHANEDIOL	203-473-3	107-21-1	5-10%	Xn;R22
BUTANE	203-448-7	106-97-8	1-5%	F+;R12
ISOBUTANE	200-857-2	75-28-5	1-5%	F+;R12
MORPHOLINE	203-815-1	110-91-8	< 1%	R10 C;R34 Xn;R20/21/22
AMMONIA ...%	215-647-6	1336-21-6	< 1%	C;R34 N;R50
BUTANONE	201-159-0	78-93-3	< 1%	F;R11 Xi;R36 R66 R67

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Get medical attention immediately! Provide rest, warmth and fresh air.

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

Remove victim immediately from source of exposure. 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 and get medical attention.

Holts -15°C Deicer**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Fire can be extinguished using: Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. DO NOT try to put out large fires.

SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS

Risk of explosion if heated. If heated, volume and pressure increases strongly, resulting in explosion of container.

SPECIFIC HAZARDS

Fire creates: Carbon dioxide (CO₂). Carbon monoxide (CO). Carbonyl compounds. Oxides of: Sulphur.

PROTECTIVE MEASURES IN FIRE

Firefighters should wear full protective gear including SCBA sets with full face shields.

6 ACCIDENTAL RELEASE MEASURES**SPILL CLEAN UP METHODS**

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
BUTANE	WEL	600 ppm	1450 mg/m ³	750 ppm	1810 mg/m ³	
BUTANONE	WEL	200 ppm(Sk)	600 mg/m ³ (Sk)	300 ppm(Sk)	899 mg/m ³ (Sk)	
ETHANEDIOL	WEL		10 mg/m ³ (Sk)		104 mg/m ³ (Sk)	
ETHANOL	WEL	1000 ppm	1920 mg/m ³			
ISOBUTANE	OES	800 ppm		800 ppm		
MORPHOLINE	WEL	20 ppm(Sk)	72 mg/m ³ (Sk)	30 ppm(Sk)	109 mg/m ³ (Sk)	

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**PROCESS CONDITIONS**

Use engineering controls to reduce air contamination to permissible exposure level.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash. EN374 Rubber gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

Holts -15°C Deicer**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 at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

COLOUR	Colourless
ODOUR	Odour of alcohol
SOLUBILITY	Soluble in water. Insoluble in ordinary solvents.

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid contact with acids and oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION**INHALATION**

Harmful by inhalation. Vapours may cause headache, fatigue, dizziness and nausea. Harmful: possible risk of irreversible effects through inhalation.

INGESTION

May cause severe internal injury. Harmful: possible risk of irreversible effects if swallowed.

SKIN CONTACT

Harmful in contact with skin. Harmful: danger of serious damage to health by prolonged exposure in contact with skin.

EYE CONTACT

Splashes may irritate. Repeated exposure may cause chronic eye irritation.

TARGET ORGANS

Skin. Eyes. Respiratory system, lungs.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Not regarded as dangerous for the environment. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

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

14 TRANSPORT INFORMATION**GENERAL****LIMITED QUANTITIES**

UK ROAD CLASS

2

PROPER SHIPPING NAME

AEROSOLS

UN NO. ROAD

1950

UK ROAD PACK GR.

N/A

ADR CLASS NO.

2

ADR CLASS

Class 2: Gases

ADR PACK GROUP

N/A

ADR LABEL NO.

2.1 & 6.1

RID CLASS NO.

2

RID PACK GROUP

N/A

Holts -15°C Deicer

UN NO. SEA	1950	IMDG CLASS	2.1
IMDG PACK GR.	N/A	EMS	F-D, S-U
MARINE POLLUTANT	No.	UN NO. AIR	1950
AIR CLASS	2.1	AIR SUB CLASS	6.1
AIR PACK GR.	N/A		

15 REGULATORY INFORMATION

LABELLING



Harmful



Extremely Flammable

CONTAINS

METHANOL

RISK PHRASES

R12	Extremely flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

SAFETY PHRASES

S2	Keep out of the reach of children.
S9	Keep container in a well-ventilated place.
S13	Keep away from food, drink and animal feeding stuffs.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S36/37	Wear suitable protective clothing and gloves.
S51	Use only in well-ventilated areas.
S46	If swallowed, seek medical advice immediately and show this container or label.
A1	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2	Do not spray on a naked flame or any incandescent material.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. 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.

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. The Aerosol Dispensers (EEC Requirements) (Amendment) Regulations 1996 (S.I 1996 No. 2421).

16 OTHER INFORMATION

REVISION COMMENTS

Change of formulation

REVISION DATE 06/01/2011

REV. NO./REPL. SDS GENERATED 7

SDS NO. 13075

DATE 30-06-05

Holts -15°C Deicer

RISK PHRASES IN FULL

R34	Causes burns.
R12	Extremely flammable.
R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R11	Highly flammable.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R66	Repeated exposure may cause skin dryness or cracking.
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.
R67	Vapours may cause drowsiness and dizziness.
R50	Very toxic to aquatic organisms.

DISCLAIMER

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.