

SAFETY DATA SHEET Holts -10°C Trigger De-icer

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product name	Holts -10°C Trigger De-icer
Product number	HDEI0001A, HDEI0002A, HDEI0001B, HDEI0002B
1.2. Relevant identified use	es of the substance or mixture and uses advised against
Identified uses	De-Icer
1.3. Details of the supplier	of the safety data sheet
Supplier	Holt Lloyd Services 52 Rue des 40 Mines, 60000 – Allonne, France Phone: +33 (0)3 64 99 00 32 info@holtsauto.com
Contact person	Contact email address: info@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 www.holtsauto.com
1.4. Emergency telephone	number
Emergency telephone	UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs

National emergency telephone	+43 1 31304 5620; chemikalien@umweltbundesamt.at (Austria)
number	+32022649636; info@poisoncentre.be (Belgium)
	+359 2 9154 409; poison_centre@mail.orbitel.bg (Bulgaria)
	+38514686910; toksikologija@hzjz.hr (Croatia)
	+35722405611; cy-chemregistry@dli.mlsi.gov.cy (Cyprus)
	+420267082257; biocidy@mzcr.cz (Czech Republic)
	+45 72 54 40 00; mst@mst.dk (Denmark)
	+372 794 3500; clp@terviseamet.ee, info@terviseamet.ee (Estonia)
	+358 5052 000; kirjaamo@tukes.fi (Finland)
	+ 33 3 83 85 21 92; bnpc@chru-nancy.fr (France)
	+49-30-18412-0; bfr@bfr.bund.de (Germany)
	+302106479250; +302106479450; devxp.gcsl@aade.gr, environment.gcsl@aade.gr (Greece)
	+36 (1) 476 1135; clp.ca@nnk.gov.hu (Hungary)
	+354 543 22 22; eitur@landspitali.is (Iceland)
	+353 (1) 809 2166 / +353 (1) 809 2566; chemicalsinfo@beaumont.ie (Ireland)
	+390649906140; inscweb@iss.it (Italy)
	+371 67032600; lvgmc@lvgmc.lv (Latvia)
	+370 70662008; aaa@aaa.am.lt (Lithuania)
	+320 22649636; +352 24785551; info@poisoncentre.be; direction-sante@ms.etat.lu
	(Luxembourg)
	+356 2395 2000; info@mccaa.org.mt (Malta)
	+31 88 75 585 61; productnotificatie@umcutrecht.nl (The Netherlands)
	+4573580500; produktregisteret@miljodir.no / +47 21 07 70 00; folkehelseinstituttet@fhi.no
	(Norway)
	+48 42 2538 400; biuro@chemikalia.gov.pl (Poland)
	+351 800 250 250; ciav.tox@inem.pt (Portugal)
	+40213183606; infotox@insp.gov.ro (Romania)
	+7 495 621 6885; +7 495 628 1687; rtiac@mail.ru; rtiac2003@yahoo.com (Russia)
	+421 2 5465 2307; ntic@ntic.sk (Slovakia)
	+ 386 1 522 1293; gp.ukc@kclj.si (Slovenia)
	+34 917689800; intcf.doc@justicia.es (Spain)
	+46104566750; giftinformation@gic.se (Sweden)
	+44 121 507 4123; allistervale@npis.org, sallybradberry@npis.org (UK)

SECTION 2: Hazards identification

Classification (SI 2019 No. 720)	
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
2.2. Label elements	
Hazard statements	NC Not Classified
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

3.2. Mixtures

ETHANOL		5-10%
CAS number: 64-17-5	EC number: 200-578-6	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319		
Ethanediol		1-5%
Ethanediol CAS number: 107-21-1	EC number: 203-473-3	1-5%

The full text for all hazard statements is displayed in Section 16.

Ethanol has a Specific Concentration Limit (SCL) of ≥50% for classification: Eye Irritant Category 2, H319; Causes Serious Eye Irritation. (Source: ECHA REACH Registration Dossier).

SECTION 4: First aid measures

Ingredient notes

4.1. Description of first aid measures		
General information	Treat symptomatically.	
Inhalation	Unlikely route of exposure as the product does not contain volatile substances.	
Ingestion	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.	
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Remove any contact lenses and open eyelids wide apart.	
4.2. Most important symp	toms and effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Skin irritation. Prolonged skin contact may cause redness and irritation.	
Eye contact	Irritation of eyes and mucous membranes. Prolonged contact may cause redness and/or tearing.	
4.3. Indication of any imm	4.3. Indication of any immediate medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting measures		

5.1. Extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	In case of fire, toxic and corrosive gases may be formed. No unusual fire or explosion hazards noted.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.
5.3. Advice for firefighters	
Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
6.2. Environmental precaution	S
Environmental precautions	Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. For waste disposal, see Section 13.
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Reference to other sections SECTION 7: Handling and sto 7.1. Precautions for safe hand Usage precautions 7.2. Conditions for safe storag Storage precautions	For personal protection, see Section 8. For waste disposal, see section 13. rage ling Avoid spilling. Avoid contact with skin and eyes. e, including any incompatibilities Keep only in the original container. Keep away from food, drink and animal feeding stuffs. Store in a cool and well-ventilated place.
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Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate Sk

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour Sk

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

WEL = Workplace Exposure Limit. Sk = Can be absorbed through the skin.

DNEL	See ingredient-specific DNELs listed below.
PNEC	See ingredient-specific PNECs listed below.

ETHANOL (CAS: 64-17-5)

DNEL	Workers - Inhalation; Long term systemic effects: 950 mg/m ³ Workers - Inhalation; Short term local effects: 1900 mg/m ³ Workers - Dermal; Long term systemic effects: 343 mg/kg bw/day General population - Inhalation; Long term systemic effects: 114 mg/m ³ General population - Dermal; Long term systemic effects: 206 mg/kg bw/day General population - Oral; Long term systemic effects: 87 mg/kg bw/day General population - Inhalation; Short term local effects: 950 mg/m ³
PNEC	Fresh water; Long term 0.96 mg/l marine water; Long term 0.79 mg/l Intermittent release; Long term 2.75 mg/l STP; Long term 580 mg/l Sediment (Freshwater); Long term 3.6 mg/kg sediment dry weight Sediment (Marinewater); Long term 2.9 mg/kg sediment dry weight Soil; Long term 0.63 mg/kg soil dry weight Ethanediol (CAS: 107-21-1)
DNEL	Workers - Inhalation; Long term local effects: 35 mg/m ³ Workers - Dermal; Long term systemic effects: 106 mg/kg/day General population - Inhalation; Long term local effects: 7 mg/m ³ General population - Dermal; Long term systemic effects: 53 mg/kg/day
PNEC	Fresh water; 10 mg/l marine water; 1 mg/l STP; 199.5 mg/l Sediment (Freshwater); 37 mg/kg Sediment (Marinewater); 3.7 mg/kg Soil; 1.53 mg/kg

METHANOL (CAS: 67-56-1)

DNEL	Workers - Inhalation; Long term systemic effects: 260 mg/m ³
	Workers - Inhalation; Short term systemic effects: 260 mg/m ³
	Workers - Inhalation; Long term local effects: 260 mg/m ³
	Workers - Inhalation; Short term local effects: 260 mg/m ³
	Workers - Dermal; Long term systemic effects: 40 mg/kg bw/day
	General population - Inhalation; Long term systemic effects: 50 mg/m ³
	General population - Inhalation; Short term systemic effects: 50 mg/m ³
	General population - Inhalation; Long term local effects: 50 mg/m ³
	General population - Inhalation; Short term local effects: 50 mg/m³
	General population - Dermal; Long term systemic effects: 8 mg/kg bw/day
	General population - Dermal; Short term systemic effects: 8 mg/kg bw/day
	General population - Oral; Long term systemic effects: 8 mg/kg bw/day
	General population - Oral; Short term systemic effects: 8 mg/kg bw/day
PNEC	Fresh water; 20.8 mg/l
	marine water; 2.08 mg/l
	STP; 100 mg/l
	Intermittent release; 1540 mg/l
	Sediment (Freshwater); 77 mg/kg sediment dry weight
	Sediment (Marinewater); 7.7 mg/kg sediment dry weight
	Soil; 100 mg/kg soil dry weight
	Denatonium Benzoate (CAS: 3734-33-6)
DNEL	Workers - Inhalation; Long term systemic effects: 4.99 mg/m ³
DILL	Workers - Dermal; Long term systemic effects: 1.43 mg/kg/day
	General population - Inhalation; Long term systemic effects: 0.768 mg/m ³
	General population - Dermal; Long term systemic effects: 0.51 mg/kg/day
	General population - Oral; Long term systemic effects: 0.51 mg/kg/day
DUEO	
PNEC	Fresh water; 0.1 mg/l
	marine water; 10 μg/l Sodiment (Freebucter): 25 mg/kg
	Sediment (Freshwater); 25 mg/kg Sediment (Marinewater); 2.5 mg/kg
	Soil; 4.96 mg/kg
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	Wear chemical splash goggles.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	Wear appropriate clothing to prevent reasonably probable skin contact.
Hygiene measures	Wash hands after handling.
Respiratory protection	Respiratory protection not required.
SECTION 9: Physical and cher	mical properties

Holts -10°C Trigger De-icer

9.1. Information on basic physical and chemical properties

	ical and chemical properties
Appearance	Clear liquid.
Colour	Blue.
Odour	Alcoholic.
рН	pH (concentrated solution): 6.8 - 7.0
Flash point	78°C Closed cup.
Relative density	0.988 @ 20°C
Solubility(ies)	Miscible with water.
9.2. Other information	
SECTION 10: Stability and rea	ıctivity
10.1. Reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	
Stability	Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Not applicable. Will not polymerise.
10.4. Conditions to avoid	
Conditions to avoid	Avoid heat. Avoid freezing.
10.5. Incompatible materials	
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
10.6. Hazardous decompositio	n products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
SECTION 11: Toxicological inf	iormation
11.1. Information on toxicologi	cal effects
Toxicological effects	Based on available data, the classification criteria are not met.
Acute toxicity - oral ATE oral (mg/kg)	24,897.3
Acute toxicity - dermal ATE dermal (mg/kg)	71,428.57
Acute toxicity - inhalation ATE inhalation (gases ppm)	166,666.67
ATE inhalation (vapours mg/l)	714.29
ATE inhalation (dusts/mists mg/l)	119.05
SECTION 12: Ecological inform	nation

Ecotoxicity	Product classification: Based on available data, the classification criteria are not met.	
12.1. Toxicity		
12.2. Persistence and degradability		
Persistence and degradability	/ The product is biodegradable.	
12.3. Bioaccumulative potenti		
Bioaccumulative potential	The product is not bioaccumulating.	
12.4. Mobility in soil		
Mobility	The product contains substances which are water-soluble and may spread in water systems.	
12.5. Results of PBT and vPv	Bassessment	
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.	
12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal consid	derations	
13.1. Waste treatment metho	ds	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.	
SECTION 14: Transport information		
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
14.1. UN number		
Not applicable.		
14.2. UN proper shipping nan	ne	
Not applicable.		
14.3. Transport hazard class(es)		
No transport warning sign required.		
14.4. Packing group		
Not applicable.		
14.5. Environmental hazards		
Environmentally hazardous substance/marine pollutant No.		
14.6. Special precautions for	user	
Not applicable.		
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code		
Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code		
SECTION 15: Regulatory information		

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

National regulations	EH40/2005 Workplace exposure limits.
Authorisations (SI 2020 No. 1577 Annex XIV)	No specific authorisations are known for this product.
Restrictions (SI 2020 No. 1577 Annex XVII)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to SI 2019 No. 720	Not classified for physical hazards.: Calculation method. Not classified for health hazards.: Calculation method. Not classified for environmental hazards.: Calculation method.
Training advice	Chemical hazard awareness training, including labelling, Safety Data Sheets, Personal Protective Equipment (PPE) and hygiene as relevant for the target audience.
Revision date	03/08/2022
Revision	3
Supersedes date	07/11/2017
SDS number	21288
Hazard statements in full	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H319 Causes serious eye irritation. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.

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.