

SAFETY BOOTS LIQUID

Revision nr. 3

Dated 11/5/2015

Printed on 11/05/2015

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	Safety data sheet				
SECTION 1. Identificat	ion of the substance/mixture and of the company/undertaking				
1.1. Product identifier Product name	SAFETY BOOTS LIQUID				
	the substance or mixture and uses advised against anitizer for air conditioning systems.				
	A-4653 Eberstalzell Tel: +43 (0) 7241 213 79				
 1.4. Emergency telephone number Poisoning Information Centre (VIZ), Stubenring 6, A-1010 Vienna, Emergency call 0-24 hrs: +43 1 406 43 43, Office hours: Monday to Friday, 8 to 16 hrs, Tel.: +43 1 406 68 98 					
SECTION 2. Hazards ic	Jentification.				
2.1. Classification of the substance or mixture.					
The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.					
2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.					
Hazard classification and indicatior Flam. Liq. 2 Eye Irrit. 2 STOT SE 3 Aquatic Chronic 3 2.1.2. 67/548/EEC and 1999/45//	H225 H319 H336 H412				
2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments. Danger Symbols: Xi R phrases: 10-36-67					

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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azard pictograms:				
	\land			
< 😗 > <				
Signal words:	Danger			
olghar words.	Danger			
azard statements:				
azard statements:				
H225 H319	Highly flammable liquic Causes serious eye irri	d and vapour.		
H336	May cause drowsiness	or dizziness.	ete	
H412 EUH208	Harmful to aquatic life Contains:	with long lasting effe	:018.	
	GLYOXAL			
	May produce an allergi	c reaction.		
recautionary statements	3:			
P101	If medical advice is ner	eded, have product o	container or label at hand.	
P102 P210	Keep out of reach of ch	nildren.	not surfaces. No smoking.	
P233 P280	Keep container tightly	closed.		
P312	Call a POISON CENTE	ER or doctor/physicia	y / eye protection / face protection. an if you feel unwell.	
P501	Dispose of contents/co	ntainer to		
Contains:	PROPAN-2-OL			
2.3. Other hazards.				
formation not available.				
SECTION 3. Cor	mposition/informat	tion on ingred	ients.	
3.1. Substances.				
3.1. Substances.				
nformation not relevant. 3.2. Mixtures.				
formation not relevant. 3.2. Mixtures. ontains: Identification.		Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
formation not relevant. 3.2. Mixtures. ontains: Identification. PROPAN-2-OL		Conc. %. 30 - 100	Classification 67/548/EEC. R67, F R11, Xi R36	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3
formation not relevant.				

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Dec. no. 04 0440457550 05				
Reg. no. 01-2119457558-25				
ACETONE				
CAS. 67-64-1	5 - 10	R66, R67, F R11, Xi R36	Flam. Liq H336, EL	. 2 H225, Eye Irrit. 2 H319, STOT SE 3
EC. 200-662-2			11550, EC	1000
INDEX. 606-001-00-8				
Reg. no. 01-2119471330-49				

CAS. 7173-51-5

EC. 230-525-2 INDEX. 612-131-00-6

CLORURO DI DIDECILDIMETILAMMONIO

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

C R34. Xn R22

Acute Tox. 4 H302, Skin Corr. 1B H314, Aquatic

Chronic 1 H410

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

0.25 - 1

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

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5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

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SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

United Kingdom	EH40/2005 Workplace exposure limits. Containing the list of workplace exposure
_	limits for use with the Control of Substances Hazardous to Health Regulations (as
	amended).
Éire	Code of Practice Chemical Agent Regulations 2011.
OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
	2000/39/EC.
TLV-ACGIH	ACGIH 2012

PROPAN-2-OL

Threshold Limit Value.	a	T 1414 (6)		0751/46		
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		492	200	983	400	
OEL	IRL		200		400	SKIN
WEL	UK	999	400	1250	500	

ACETONE

Threshold Limit Value.					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		1187	500	1781	750
OEL	EU	1210	500		
OEL	IRL	1210	500		
WEL	UK	1210	500	3620	1500

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

TLV of solvent mixture: 523 mg/m3.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

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9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

ACETONE: decomposes under the effect of heat.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ACETONE: avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials.

ACETONE: acid and oxidising substances.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ACETONE: ketenes and other irritating compounds.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Vapour inhalation may moderately irritate the upper respiratory trait. Contact with skin may cause slight irritation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects,

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such as drowsiness, dizziness, slow reflexes, narcosis.

PROPAN-2-OL LD50 (Oral). 4710 mg/kg Rat LD50 (Dermal). 12800 mg/kg Rat LC50 (Inhalation). 72,6 mg/l/4h Rat

SECTION 12. Ecological information.

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity.** Information not available.

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%. **12.6. Other adverse effects.**

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading

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dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

hae beo				
	l rail transport: ADR/RID Class:	3	UN:	1993
3				
	Packing Group:	III		
	Label:	3		
	Nr. Kemler:	30		
	Limited Quantity.	5 L		
	Tunnel restriction code.	(D/E)		
	Proper Shipping Name:	FLAMMABLE	LIQUID, N.O.S. (PROPAN-2-OL; ACE	TONE)
	Special Provision:	640E		
Carriage I	by sea (shipping): IMO Class:	3	UN:	1993
		C C	.	
•	Packing Group:	III		
	Label:	3		
	EMS:	F-E ,	<u>S-E</u>	
	Marine Pollutant.	NO		
	Proper Shipping Name:	FLAMMABLE	LIQUID, N.O.S. (PROPAN-2-OL; ACE	TONE)
ransport	t by air:			
	IATA:	3	UN:	1993
•	Packing Group:	Ш		
	Label:	3		
	Cargo:			
	Packaging instructions:	366	Maximum quantity:	220 L
	Pass.:			
	Packaging instructions:	355	Maximum quantity:	60 L
	Special Instructions:	A3		
	Proper Shipping Name:	FLAMMABLE	LIQUID, N.O.S. (PROPAN-2-OL; ACE	TONE)
SECTIO	ON 15. Regulatory inform	ation		
5 1 Safe	ety, health and environmental regu	lations/legislation specif	ic for the substance or mixture.	
5.1. Oale				
Seveso ca	ategory. 6			
Seveso ca		whater are more star Ar		
Seveso ca		substances pursuant to An	nex XVII to EC Regulation 1907/2006.	
Seveso ca strictions oduct.	relating to the product or contained s	substances pursuant to An	nex XVII to EC Regulation 1907/2006.	
Seveso ca strictions oduct.		substances pursuant to An	nex XVII to EC Regulation 1907/2006.	
Seveso ca strictions oduct. Point.	relating to the product or contained s	substances pursuant to An	nex XVII to EC Regulation 1907/2006.	

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None.			
Substances subject to authorisarion (Annex XIV REACH).			
None.			
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:			
Substances subject to the Rotterdam Convention:			
None.			
Substances subject to the Stockholm Convention:			
None.			
Healthcare controls.			

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

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R10	FLAMMA	BLE.	
R11	HIGHLY I	FLAMMABLE.	
R22	HARMFU	IL IF SWALLOWED.	
R34	CAUSES	BURNS.	
R36	IRRITATI	NG TO EYES.	
R66	REPEATI	ED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.	
R67	VAPOUR	S MAY CAUSE DROWSINESS AND DIZZINESS.	
 CE50: Effective c CE NUMBER: Idd CLP: EC Regulat DNEL: Derived N EmS: Emergency GHS: Globally Ha IATA DGR: Internation IMDG: Internationa INDEX NUMBER LC50: Lethal Cor DD50: Lethal dos OEL: Occupation PBT: Persistent b PEC: Predicted e PEL: Predicted e PEL: Predicted e REACH: EC Reg RID: Regulation c TLV CEILING: Cc TWA STEL: Shor TWA: Time-weigl VOC: Volatile org vPVB: Very Persi WGK: Water haz 	entifier in ESIS (Euro tion 1272/2008 lo Effect Level y Schedule armonized System o hational Air Transpor tion Concentration 5 hal Maritime Organiza the Identifier in Annex incentration 50% is 50% al Exposure Level bioaccumulative and environmental Concer xposure level In o effect concentration ulation 1907/2006 concerning the interr timit Value oncentration that sho rt-term exposure limi hted average exposis ganic Compounds stent and very Bioac ard classes (German	ed to induce a 50% effect) opean archive of existing substances) f classification and labeling of chemicals rt Association Dangerous Goods Regulation 0% or dangerous goods tion VI of CLP toxic as REACH Regulation entration tion hational transport of dangerous goods by train ould not be exceeded during any time of occupational exposure. t ure limit exumulative as for REACH Regulation	
 Directive 67/548 Regulation (EC) Regulation (EC) Regulation (EC) Regulation (EC) Regulation (EC) Regulation (EC) The Merck Inde: 10. Handling Chen 11. Niosh - Registri 12. INRS - Fiche T 13. Patty - Industri 14. N.I. Sax - Dang 15. ECHA website 	45/EC and following a 3/EEC and following 1907/2006 (REACH 1272/2008 (CLP) o 790/2009 (I Atp. CL 453/2010 of the Eu 286/2011 (II Atp. Cl 618/2012 (III Atp. Cl 618/2012 (III Atp. Cl x 10th Edition nical Safety ry of Toxic Effects of Toxicologique (toxico al Hygiene and Toxi gerous properties of	amendments and adjustments 1) of the European Parliament f the European Parliament .P) of the European Parliament ropean Parliament LP) of the European Parliament CLP) of the European Parliament CCP) of the European Parliament CCP is the European	
Note for users: The information co thoroughness of pu This document mu	ontained in the pres rovided information a ist not be regarded a	ent sheet are based on our own knowledge on the date of the last ve according to each specific use of the product. Is a guarantee on any specific product property. In our direct control; therefore, users must, under their own responsibility	

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laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 06 / 08 / 09 / 11 / 12 / 13 / 14 / 15 / 16.