

DETHERM spray

Doc. SDS CLP830 00-DETHERM SPRAY Rev.02 2015-06-26 Issued on 03/01/2007 #1/5 ation of the Substa 1.1. Product Identifier Trade name : DETHERM spray ISS Code : DETAL 1.2 Relevant identified uses of the substance or mixture and uses advised against : Cleaner for water heaters - exhaust side - 400 ml spray Consumer uses Uses advised against : All those not expressly specified in the label 1.3 Details of the Supplier on the Safety Data Sheet FACOT CHEMICALS s.n.c. - Via Crema, 44 - 26010 CAPRALBA (CR) - ITALY tel. +39 0373 450642-3 Fax +39 0373 450751 - email: info@facot.it www.facot.it e-mail of referee: msds@facot.it 1.4. Emergency telephone number +39 0373 450642 (from 08.30 to 12.30 and from 14.00 to 18.00) In section 16 of this data sheet are given the contact numbers of the Poison Centers in Italy open 24 hours a day. 2.1. Classification of the substance or mixture 2.1.1 Classification within the meaning of Regulation (CE) No. 1272/2008: Symbols : GHS02, GHS07 Class codes and category of danger : Flam. Aerosol 1, Eye Irrit. 2 Hazard statements codes : H222 - Highly flammable aerosol. H319 - Causes serious eye irritation. H229 - Pressurized container: may burst if heated. 2.1.2 Adverse effects Aerosol that ignites easily even at low temperatures, risk of fire. The product, if brought into contact with the eyes, causes significant irritation that may persist for more than 24 hours. Repeated inhalation of vapors may cause drowsiness and dizziness. Pressurised container. Protect from sunlight and do not expose to temperatures higher than 50 °C. Overheated aerosol containers explode and may be projected at distance violently with consequent fire hazard. 2.2. Elements of label Labelling in accordance with Regulation (CE) no. 1272/2008: Symbols GHS02, GHS07 Warning codes : Danger Hazard statements codes: H222 - Highly flammable aerosol. H319 - Causes serious eye irritation. H229 - Pressurized container: may burst if heated. Safety phrases: HAZARD General P102 - Keep out of the reach of children. P103 - Read the label before use. Prevention P210 - Keep away from heat sources, hot surfaces, sparks, naked flames or other sources of ignition. Do not smoke. P211 - Do not spray on naked flames or other ignition source. P251 - Do not pierce or burn, even after use P280 - Wear protective gloves/protective clothing/eye protection/face protection. Reaction P305 + P351 + P338 IF IN EYES: rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337+P313 - If the eye irritation persists, seek medical advice. Storage P410+P412 - Protect from sunlight. Do not expose to temperatures above 50 °C/ 122 °F. 2.3. Other hazards Overheated aerosol containers explode and may be projected at distance violently with consequent fire hazard. Do not operate in areas insufficiently ventilated and underground spaces. Gases are heavier than air and may accumulate dangerously. 3. Composition/information on ingredients 3.1. Composition/information on ingredients Refer to point 16 for the full text of risk phrases and hazard statements Substance Concentration Classification CAS **EINECS** REACh Butane > 3 < 5% Flam. Gas 1, H220; Press. Gas, H280 106-97-8 203-448-7 01-2119474691-32 > 3 < 5% Flam. Gas 1, H220; Press. Gas, H280 75-28-5 200-857-2 01-2119485395-27 Isobutane > 3 < 5% Flam. Gas 1, H220; Press. Gas, H280 74-98-6 200-827-9 01-2119486944-21 Propane > 3 < 5% GHS03 Ox. Sol. 1 - H271 Ammonium nitrate 6484-52-2 229-347-8 > 3 < 5% GHS07 Acute Tox. 4 - H302, H312 214-202-3 Ammonium oxalate 1113-38-8 - -First aid measu 4.1. Description of first aid measures

Inhalation

Ventilate the room. Seek medical advice if feeling unwell.

Direct contact with the skin (the pure product)

Wash thoroughly with soap and water, rinsing carefully.







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Direct contact with the eyes (the pure product)

Wash immediately and thoroughly for about 15 minutes with tap water holding eyelids open. Resort to specialized medical treatment. Indestion

Do not induce vomiting and do not administer anything unless expressly indicated by the physician, which should be contacted promptly. In waiting for the doctor keep the injured at rest.

4.2. Main symptoms and effects, both acute and delayed

Data not available.

4.3. Indication of whether there is a need to consult a doctor immediately and special treatments

See point 4.1 Description of first aid measures.

5. Fire-Fighting Measures

5.1. Extinguishing means

Recommended extinguishing means:

Atomized water, CO2, foam, chemical powders, depending on the materials involved in the fire.

Extinguishing means to avoid

Direct jets of water.

5.2. Special dangers arising from the substance or mixture

Overheated aerosol containers explode and may be projected at distance violently with consequent fire hazard. Product under pressure in sealed metal case (pressure test max 15 bar). Cool down the containers with water spray trying to move them away from fire. Overheated aerosol containers explode and may be projected at distance violently (protect your head with safety helmet).

5.3. Recommendations for firefighters

Use protective devices for the respiratory tract. Safety helmet and full protective equipment. The water spray can be used to protect the people involved in the extinction. It is also recommended to use breathing apparatus, especially if you work indoors in poorly ventilated spaces and in any case if you use halogen-based extinguishers. Cool the containers with water jets.

n case of accidental relea

6.1. Personal precautions, protective equipment and procedures in case of emergency

For those who do not intervene directly

Move away from the area surrounding the spill or leak. Do not smoke. Remember that overheating may project the spray at considerable distance

For those who intervene directly

Given the tightness of the spray, significant leaks are very unlikely to occur. However, if any container is damaged and may leak, isolate the spray in question bringing it outdoors or covering it with inert and non-combustible material (e.g. sand, ground, vermiculite) and be careful to avoid any ignition point that could constitute a serious fire hazard. Prevent the spilled product from reaching watercourses and drains, keep away any source of ignition, the vapors will propagate at ground level and may give rise to risks of intoxication or explosion in underground areas (basements, pits etc.). Wear gloves and protective clothing. Eliminate all naked flames and any sources of ignition. Do not smoke. Provide adequate ventilation. Evacuate the danger area and, possibly, consult an expert.

6.2. Environmental precautions

Isolate the spray covering it with inert non-combustible material (e.g. sand, earth, vermiculite). Prevent the spilled product from reaching watercourses and drains, keep away any source of ignition, the vapors will propagate at ground level and may give rise to risks of intoxication or explosion in underground areas (basements, pits etc.).

6.3. Methods and materials for containment and remediation

Consign it exclusively to specialized companies. Contain and absorb the liquid poured, with inert materials absorbing (sand, soil, sepiolite, other specific products) and store the damaged containers in sealed containers.

6.4. Reference to other sections

Refer to points 8 and 13 for further information

<u>. Handling and storage</u> 7.1. Precautions for safe handling

The vapors are heavier than air and may spread at ground level and form explosive mixtures with air. Prevent the accumulation of concentrations that are flammable or explosive in the air. Pressurised container. Protect from sunlight and do not expose to temperatures higher than 50 °C. Do not pierce or incinerate even after use. Do not spray on flames or hot objects. Use in sufficiently ventilated areas

7.2. Conditions for the secure storage, including any incompatibility

Keep the containers in vertical and safe position avoiding the possibility of falls or impact. Pressurised container. Keep in ventilated places, in the original packing to protect from heat sources and from sunlight. Always keep in well ventilated rooms. Keep away from open flames, sparks and heat sources. Avoid direct exposure to the sunlight. Keep away from flames and sparks. Avoid the accumulation of electrostatic charges.

7.3. Specific end uses

Consumer uses

Pressurised container. Do not pierce or incinerate even after use. Do not spray on flames or hot objects. Use in sufficiently ventilated areas. Pressurised container. Keep in ventilated places, in the original packing to protect from heat sources and from sunlight.

3. Exposure controls/personal protectior 8.1. Control parameters

Concerning the substances contained

Butane, isobutane

TLV: (aliphatic hydrocarbon gases, Alkane C1-C4) 1000 ppm (as TWA) (ACGIH 2005)

MAK: 1000 ppm 2400 mg/m³ Peak limitation category: II(4) Pregnancy risk group: D (DFG 2006). Propane

TLV: (Aliphatic hydrocarbons) 1000 ppm as TWA (ACGIH 2005).

MAK: 1000 ppm 1800 mg/m³ Peak limitation category: II(4) Pregnancy risk category: D (DFG 2006).







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8.2. Exposure controls

Personal protection measures

Eye/ face protection a)

Use safety goggles in compliance with EN-166

- Skin protection b)
- i) Protection for hands

When handling the product, use protective gloves resistant to chemical products (EN374-1/EN374-2/EN374-3). To determine the permeation index, contact the manufacturer of the gloves.

- ii) Other
- Avoid direct contact with the skin. Preferably use garments in antistatic cotton.
- c) Respiratory protection

Operate in suitably ventilated areas. In the presence of vapors/aerosols and/or if the product is used indoors, in spaces poorly ventilated, use respiratory protection in accordance with UNI EN 529:2006 (Respiratory protection devices - Recommendations for selection, use, care and maintenance - Guidelines) by establishing the proper FPO value "Operational protection factor" d) Thermal hazards

Protect from sunlight and do not expose to temperatures higher than 50 °C.

Checks of the environmental exposure

Minimize product release to the environment

and chomi

9.1. Information on the physical and chemical properties fundamental					
Physical and chemical properties	Value				
Appearance	Colourless liquid in gaseous suspension				
Odour	Characteristic				
Olfactory threshold	Not available				
pH at 20°C	Not relevant				
Melting/Freezing point	Not relevant/not available				
Initial point/boiling range	~ 100°C				
Flash point of the liquid phase	Not available				
Flammability of the propellant	Highly flammable				
Upper/lower flammability or explosive limits	1.8 ÷ 9.5 % by volume				
Vapor pressure	Not available				
Vapor density	Not available				
Relative density	0.810 ± 0.005				
Solubility	Not available				
Water solubility	Soluble				
Partition coefficient: n-octanol/water	Not available				
Self-ignition temperature	Not available				
Decomposition temperature	Not available				
Volume of the container	520 ml				
Volume of the product	400 ml				
Pressure at 20°C	3.5 ± 0.3 bar				
Pressure at 50°C	Not available				
Spray test pressure	15 bar				
Auto-flammability	~ 360°C				

9.2. Other Information

VOC (Volatile organic compounds) Not available

Stability and rea

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10.1. Reactivity

Under normal conditions of use and following the procedures recommended use, there is no risk of reactivity.

10.2. Chemical Stability

The aerosol remains stable for a minimum period of 36 months; under normal conditions of storage no dangerous reactions may occur if the container is not hermetically sealed.

10.3. Possibility of dangerous reactions

There are no dangerous reactions in the normal conditions of use and by following the procedures recommended.

10.4. Conditions to avoid

In order to avoid that the metal of the container may deteriorate, keep away from products with acidic or basic reaction. Be careful to high temperatures, because at temperatures higher than 50 °C the pressure inside the container increases and can cause spray deformation and even explosion.

10.5. Incompatible materials

Substances or preparations strongly acidic, basic and oxidants in general.

10.6. Hazardous decomposition products

In the case of thermal decomposition harmful fumes may be released.

11. Toxicological Information

11.1. Information on toxicological effects							
ATE(mix) oral	=	10,000.0 mg/kg					
ATE(mix) dermal	=	22.000.0 mg/kg					
ATE(mix) inhal	=	0.0 mg/l/4 h					
a) Acute toxicity		: not applicable					
b) Skin corrosion/irrit	ation	: not applicable					
c)							







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,		: if brought into contact with the eyes, causes signific	cant
		irritation that may persist for more than 24 hours.	- and
 Sensitisation of respiratory tract 	t and the skin	: not applicable	
) Germ cell mutagenicity) Carcinogenicity		: not applicable : not applicable	
) Reproductive toxicity		: not applicable	
) Specific toxicity to target organs		: not applicable	
Specific toxicity to target organs	s (STOT) repeated exposure	: not applicable	
) Aspiration hazard	utaina di	: not applicable	
formation relating to substances co	ntained:		
utane /Propane/Isobutane		: The substance can be absorbed into the body by inhalation.	RISKS
Y INHALATION		: Following a leak, the liquid will evaporate very quickly replaci	
		the air is causing a serious risk of asphyxiation in closed spa	
FFECTS OF SHORT TERM EXPOS	SURE	: Contact with rapidly evaporating liquid may cause frostbite. T substance may cause effects on the central nervous system	
CUTE RISKS/ SYMPTOMS			
	of unconsciousness.		
	ITH THE LIQUID CAUSES FR		
	ITH THE LIQUID CAUSES FR		opovvvith
loss of consciousne		ea. High concentrations in the atmosphere cause oxygen deficie	ency with
2 Ecological Information			
12.1. Toxicity			
ata not available.			
12.2. Persistence and de	egradability		
oes not contain surfactants.			
12.3. Potential for bioacc	cumulation		
ata not available. 12.4. Mobility in ground			
ata not available.			
12.5. Results of PBT and	d vPvB evaluation		
lo chemical safety report is required			
12.6. Other adverse effect	cts		
Data not available.			
3. Disposal Considerations			
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DETHERM spray

Doc. SDS_CLP830_00-DETHERM SPRAY_Rev.02_2015-06-26

latory Information

15.1. Standards and legislation on health, safety and environment specific for the substance or the mixture

Law Decree 09/04/208 n° 81 - TITLE IX Chapter II It does not contain carcinogens pursuant to Art. 234.

In order to use this product, the employer must carry out the "Risk assessment" according to the provisions of Leg. Decree April 9, 2008 No 81. Workers exposed to this chemical agent must not be subjected to health surveillance if the outcome of the risk assessment shows that, in relation to the type and quantity of a dangerous chemical agent and the mode and frequency of exposure to this agent, there is only a "moderate risk" for health and safety of workers and that the measures provided for in the same Decree are sufficient to reduce the risk. Law Decree of Government no. 52, dated 03 /02/1977

(Implementation of Directive 92/32/CEE on classification, packaging and labelling of dangerous substances).

Law Decree of Government no. 65, dated 14/03/2003

(Implementation of Directives 1999 /45/CE and 2001/60/CE relating to the classification, packaging and labelling of dangerous preparations).

Law Decree of Government no. 25, dated 02/02/2002

(Implementation of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at workplace).

DM of 26 02/02/ 2004

(Definition of a first list of indicative occupational exposure limit values for chemical agents).

DM of 03/04/2007

(Implementation of Directive No. 2006/8/CE of the Commission dated January 23, 2006, amending, to adapt them to technical progress, Annexes II, III and V of Directive 1999 /45/CE of the European Parliament and of the Council on the harmonization of laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations). **Regulation (CE) no. 1907/2006 Of the European Parliament and of the Council dated December 18, 2006**

Concerning the registration, evaluation, authorisation and restriction of chemicals (REACH), establishing a European agency for chemical substances, amending Directive 1999/45/CE and repealing Regulation (EEC) n. 793/93 Of the Council and the Regulation (CE) no 1488/94 of the Commission as well as the Council Directive 76/769/CEE, the Directives of the Commission 91/155/CEE, 93/67/CEE, 93/67/CEE, 93/105/CE and 2000/21/CE.

Regulation (CE) no. 1272/2008 of the European Parliament and of the Council dated December 16, 2008

On classification, labelling and packaging of substances and mixtures, amending and revoking Directive 67/548/CEE and 1999 /45/CE and amending Regulation (CE) no. 1907/2006.

Regulation (CE) no. 790/2009 Of the Commission dated August 10, 2009

Amending, for the purposes of adaptation to technical and scientific progress, of Regulation (CE) n. 1272/2008 of the European Parliament and The Council on classification, labelling and packaging of substances and mixtures.

Council Directive 75 /324/CEE dated May 20, 1975, implemented with Directives 2013/10/UE dated March 19, 2013

On the harmonization of the laws of the Member States relating to aerosols.

15.2. Chemical Safety Assessment

Chemical safety assessment not provided.

16 Other Information

16.1. Other Information Description of hazard phrases set out in point 3

H220 = Highly flammable gas.

- H280 = Contains gas under pressure; may explode if heated.
- H272 = May intensity fire; oxidizer.
- H319 = Causes severe eye irritation.
- H302 = Harmful if swallowed.
- H312 Harmful in contact with skin.

Classification based on the data of all the components of the mixture

If necessary, below are the telephone numbers active 24 hour 24 of some poison centres:

(www.salute.gov.it/servizio/documenti/centri_antiveleni.pdf)

FLORENCE	Poisons Information Center of Florence	(www.antiveleni.altervista.org)	Ó55	7947819
GENOA	Poison Centre		010	56361245
MILAN	Poison Center	(www.centroantiveleni.org)	02	66101029
NAPLES	Poison Centre Cardarelli Hospital	(www.ospedalecardarelli.it/ospedale/centro-anti-veleni)	081	7472870
PADUA	Poison Centre		049	8275078
PAVIA	IRCCS Fondazione S.Maugeri	(www.cavpavia.it)	0382	24444
ROME	Poison Centre Policlinico Gemelli	(www.tox.it)	06	3054343
ROME	Poison Center, University "La Sapienza"	(www.uniroma1.it/cav_cartella)	06	49970698
TURIN	Poison Center		011	6637637

MAIN BIBLIOGRAPHIC SOURCES

ACGIH - American Conference of Governmental Industrial Hygienists

ECB - European Chemicals Bureau

IARC - International Agency for Research on Cancer

IPCS - International Programme on Chemical Safety (Cards)

NIOSH - Registry of toxic effects of chemical substances (1983)

OSHA - European Agency for Safety and Health at Work

PHATOX - Pharmacological and Toxicological Data and Information Network

WHO - World Health Organization

Safety data sheet as per Regulation (UE) 2015/830 of 29 May 2015 and subsequent amendments

This safety data sheet fully replaces all previous versions.

The information on this safety data sheet were obtained from the best data available on the market on the date of review indicated. Neither the company owner of this data sheet nor the subsidiary companies will accept complaints arising from improper use of the information given here or by improper use of the product. Pay particular attention to the use of preparations because improper use can increase the danger.



