

EU - SAFETY DATA SHEET / ИНФОРМАЦИОНЕН ЛИСТ ЗА БЕЗОПАСНОСТ

Commercial product name / Търговско наименование на продукта: **Anti-Static Spray**
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1. Identification of the substance and the company / Наименование на веществото/препарата и на фирмата/предприятието

Product Name: Anti-Static Spray
Manufacturer/Supplier: Hanns Eggen GmbH & Co. KG
Am Boksberg 2
D-31157 Sarstedt, Germany
Phone: +49(0)5066-7076-0
Fax: +49(0)5066-62743
Emergency advice: Phone: +49(0)5066-7076-0

2. Composition/Information on ingredients / Състав на препарата / информация за компонентите

Chemical characterization

Polyglycolesters of fatty acids, 2-Propanol, Propane/Butane, Dimethylether

Hazardous ingredients

CAS-No.	Name	%	letter	R-phrases
000067-63-0	propan-2-ol	<15	F, Xi	R11-36-67
000074-98-6	propane	10-15	F+	R12
000106-97-8	butane	50-55	F+	R12
000115-10-6	dimethyl-ether	10-15	F+	R12

Additional advice

Use: see product name

R-Phrases: see chapter 16

3. Possible hazards / Описание на опасностите

Name of hazards/R-phrases

R 12 Extremely flammable

Special hazards information for humans and environment

Risk of bursting at temperatures above 50°C.

When used formation of explosive gas/air mixtures may be possible.

4. First aid measures / Мерки за оказване на първа помощ

General information: Take affected person into fresh air.

Inhalation: In case of inhalation remove casualty to fresh air and seek medical advice.

Skin contact: Wash off the skin immediately with plenty of water and soap.

Eye contact: Eye rinsing with water carefully while protecting unhurt eye.

Ingestion: Seek medical advice immediately.

Rinse out mouth thoroughly with water.

Physician's information/possible symptoms:

Inhalation of vapours in high amounts may cause headache.

Physician's information/possible danger:

Risk of respiratory disorders.

Physician's information /treatment:

Treat symptomatically.

5. Fire fighting measures / Мерки при гасене на пожар

Suitable extinguishing material

Foam, dry powder, carbon dioxide

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Unsuitable extinguishing material due to reasons of safety

Full water jet

Special exposure hazards arising from the substance, combustible products or resulting gases

Risk of bursting by fire heat

Special protective equipment for fire fighters

Use breathing apparatus with independent air supply.

Further information

Remove from the fire range otherwise cool with water spray mist to prevent from bursting by fire heat.

6. Accidental release measures / Мерки при аварийно изпускане

Personal precautions

Ensure adequate ventilation.

Keep away from sources of ignition.

Environmental precautions

Product shall not reach the drain or soil.

Methods for cleaning up/taking up

Stem and take up with absorbent material (e.g. sand, peat, soil).

Additional information

Keep off any handling equipment with engines (source of ignition).

7. Handling and storage / Работа с веществото / препаратa и съхранение

Advice on safe handling

Ensure good ventilation.

Take the usual precautions when handling with chemicals.

Advice on protection against fire and explosion

Risk of injuries and fire spreading by bursting caused by fire heat.

Requirements for storage rooms and vessels

Observe National and Local regulation.

Advice on storage compatibility

No

Further information on storage conditions

Protect from heat and direct solar radiation.

Storage group: 2B

Fire Class: C

Information on storage stability

Storage time: 24 months

8. Exposure controls/Personal protection / Контрол при експозиция и лични предпазни средства

Additional advice on technical constructions

Use only in well-ventilated area.

Ingredients with occupational exposure limits to be monitored

MAK/TRK-values:	000067-63-0	propan-2-ol	MAK	500 mg/m ³	200 ml/m ³
	000074-98-6	propane	MAK	1800 mg/m ³	1000 ml/m ³
	000106-97-8	butane	MAK	2400 mg/m ³	1000 ml/m ³
	000115-10-6	dimethyl-ether	MAK	1900 mg/m ³	1000 ml/m ³

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Personal protection

Respiratory protection: Not necessary in case of good ventilation.

Hand protection: If contamination is possible use chemical-resistant gloves made of nitrile (EN 374; permeation time > 480 min)

Eye protection: Generally not required

Skin protection: Generally not required

Hygiene and general protective measures:

Do not inhale aerosols.

Cloths contaminated with product should not be kept in trouser pockets.

At work do not eat, drink, smoke or take drugs.

9. Physical and chemical properties / Физични и химични свойства

Appearance

Form: aerosol

Colour: nearly colourless

Odour: alcoholic

Important data for safety

pH-value:

Melting point:

Boiling point:

Sublimation temperature:

Softening point:

Flash point: <0°C (concerns to propellant)

Flammable solid:

Flammable gas:

Autoignition:

Lower explosion limit: approx. 1,5 Vol-% (concerns to propellant)

Upper explosion limit: approx. 11,0 Vol-% (concerns to propellant)

Vapour pressure: approx. 4800 hPa 20°C

Density: approx. 0,617 g/cm³ 20°C

Solubility in water: partially soluble

Solubility/other: organic solvent

Solvent concentration: approx. 14,5%

Explosive properties

When used formation of explosive mixtures may be possible

Additional information

10. Stability and reactivity / Стабилност и реактивоспособнос

Conditions to avoid

Near ignition sources (sparks, flames, glow)

Materials to avoid

Dangerous decomposition products

Not by destinated use

Additional information

No

11. Toxicological information / Токсикологическа информаци

LD 50 acute oral no data available

LD 50 acute dermal no data available

LC 50 acute inhalation no data available

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Irritability skin	low
Irritability eye	low irritant - do not have to be labelled
Sensitization skin	no
Sensitization respiratory system	no
Subacute toxicity	no data available
Subchronic toxicity	no data available
Chronic toxicity	no data available
Mutagenicity	no
Reproduction-toxicity	no
Carcinogenicity	no
Toxicity test (additional information)	no
Experiences made from practice	no negative experience
Additional information	no

12. Ecological information / Информация за околната среда

Physico-chemical degradability	The product doesn't reach sewage by using as destined.	
Biological degradability	The product doesn't reach sewage by using as destined.	
Degradability	The product doesn't reach sewage by using as destined.	
Biological eliminability	The product doesn't reach sewage by using as destined.	
Degradability accord. to WRMG	The product doesn't reach sewage by using as destined.	
Mobility and bioaccumulative potential	The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.	
Ecotoxicological effects	fish	no data available
	daphnia	no data available
	algae	no data available
	bacteria	no data available
Behaviour in sewage plant	The product doesn't reach sewage by using as destined.	
Breathing inhibition of activated sludge	EC 50	not determined
Additional ecological information	OC	not determined
	COD	not determined
	BOD	not determined
	AOX	no
Contains following heavy metals and compounds of the 76/464/EWG		No
General regulation	VOC = 0.287 kg/can	

13. Disposal considerations / Третиране на отпадците

Waste code no 16 05 04 - Gases in pressure containers (including halons) containing dangerous substances

Recommendations for the product

Empty cans: material recycling
Filled cans: remove in accordance with local regulations

Recommendations for packaging

Material recycling EWC 150104

Recommended cleansing agent

Alcohol

General information

Give only emptied containers to recycling

14. Transport information / Информация при транспортиране

Land and inland transport (ADR/RID/GGVS/GGVE)

Identification UN 1950 AEROSOLS, 2.1

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UN-No. 1950
Class 2/Classification code 5F
PG -
Remarks
Transportation as Limited Quantities (LQ 2); Marking: UN 1950 (rhombe)
Remark in the transportation paper: Transportation according chapter 3.4 ADR

Marine transport IMDG/GGV See

Proper shipping name AEROSOLS
UN-No. 1950
Class 2
PG -
Marine pollutant No
EmS-No. F-D, S-U
Remarks
Entry in transportation document: limited quantities
Marks: UN 1950 (rhombe)

Air transport ICAO/IATA

Proper shipping name AEROSOLS, flammable
UN/ID-No. UN 1950
Class 2.1
PG -
Remarks
UN-4G/Y fibre board boxes required
Label: Flammable Gas
Marking: Aerosols, flammable UN 1950

Further transport information

ADR: Transport emergency card not required.

15. Regulatory information / Информация, съгласно действащата нормативна уредба

Classification

F+ Extremely flammable

R-phrases

R 12 Extremely flammable

S-phrases

23.4 Do not breathe spray.
24/25 Avoid contact with skin and eyes.
35 This material and its container must be disposed of in a safe way.
51 Use only in well-ventilated areas.

Special labelling for certain preparations

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - no smoking. Keep out of the reach of children.

Without sufficient ventilation formation of explosive mixtures may be possible.

National regulations

Restriction of occupation	No
Decree for case of interference/remarks	not applicable
Classification according to VbF/remarks	not applicable
German TY LUFT remarks	not applicable
Water hazard class	1 self-classification to German water pollution class
Other regulations, restrictions and prohibition regulations	No

16. Other information / Друга информация

Training advice

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Use the entries of this Material Safety Data Sheet

Recommended uses and restrictions

Observe care instructions

Further information

R-Phrases form chapter 2:

R 11: Highly flammable

R 12: Extremely flammable

R 36: Irritating to eyes

R 67: Vapours may cause drowsiness and dizziness.

The information and recommendations in the publication are to the best of our knowledge, information and belief accurate at the date of publication. Nothing herein is to be construed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose.

This Safety Data Sheet replaces all previous editions.