

01. Identification of the substance / preparation and of the company

Product: perma FROST with acetic acid
Use: Lubricant donator
Company: perma-tec GmbH & Co.KG; 97717 Euerdorf; Hammelburger Straße 21
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02. Composition / Information on ingredients

Substance	EINECS/ELINCS	CAS	Range [%]	Symbol / R-phr.
Acetic acid	200-580-7	64-19-7	10-<25	C 35-10
N-(2-hydroxyethyl)-ethylene diamintriacetic acid, trisodium salt	205-381-9	139-89-9	1-<20	Xi 36
Propan-2-ol	200-661-7	67-63-0	1-<15	F&Xi 11-36-67
The contained dangerous contents materials are not freely available with foreseeable use.				

03. Hazards identification

The structural design of the housing prevents release of the hazardous media contained therein when the unit is used for its intended purpose.

04. First aid measures

General information Not applicable.
Inhalation Not applicable.
Skin contact In case of contact with skin wash off with warm water .
Eye contact In case of contact with eyes rinse thoroughly with water.
Ingestion Not applicable.
Advice to doctor Treat symptomatically.

05. Fire-fighting measures

Suitable extinguishing media Foam. Dry powder. Carbon dioxide. Water spray jet.
Extinguishing media that must not be used None.
Special exposure hazards arising from the substance or preparation itself or combustion products Risk of formation of toxic pyrolysis products.
Special protective equipment for firefighters Use self-contained breathing apparatus.
Additional information Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

06. Accidental release measures

Personal precautions	Not applicable.
Environmental precautions	Not applicable.
Methods for cleaning up/taking up	Dispose of absorbed material in accordance with the regulations. Take up mechanically.

07. Handling and storage

Advice on safe handling	No special measures necessary if used correctly.
Advice on protection against fire and explosion	Keep away from sources of ignition.
Requirements for storage rooms and vessels	No special measures required.
Advice on storage compatibility	
Further information on storage conditions	Keep container tightly closed. Protect from heat/overheating.

08. Exposure controls / personal protection

Additional advice on system design Not applicable.

Ingredients with occupational exposure limits to be monitored:

Substance	LTEL[ppm]	LTEL[mg/m³]	General remarks
Acetic acid	10	25	ILV
Zubereitung	10	25	ILV
Propan-2-ol	400	999	72,80,88,96
LTEL: Long-term exposure limit			

Respiratory protection	Not applicable.
Hand protection	Butyl rubber, >120 min (EN 374)
Eye protection	Not applicable.
Skin protection	Not applicable.
General protective measures	Avoid contact with eyes.
Hygiene measures	Wash hands before breaks and after work.
Delimitation and monitoring of the environmental exposition	Not determined.

09. Physical and chemical properties

Form:	Capsule	Vapour pressure [kPa]:	Not applicable.
Colour:		Density [g/ml]:	
Odour:	Not applicable.	Bulk density [kg/m³]:	
pH-value:	Not applicable.	Solubility in water:	Not applicable.
pH-value, 1%		Partition coefficient: n-	Not applicable.

Boiling point [°C]:	Not applicable.	octanol / water:	
Flash point [°C]:	Not applicable.	Viscosity:	Not applicable.
Flammability:	Not determined.	Relative vapour density determined in air:	Not applicable.
Lower explosion limit:	Not determined.	Evaporation speed:	Not applicable.
Upper explosion limit:	Not determined.	Melting point [°C]:	Not determined.
Combustible properties:	No.	Autoignition temperature:	Not determined.
		Decomposition temperature:	Not determined.

10. Stability and reactivity

Hazardous reactions	No hazardous reactions known.
Hazardous decomposition products	No hazardous decomposition products known.

11. Toxicological information

Acute oral toxicity OECD 401	LD50 Rat : LD50 Mouse : LD50 Rabbit :
Acute dermal toxicity OECD 402	LD50 Rabbit :
Acute inhalational toxicity OECD 403	LC50 Rat :
Irritant effect on eye OECD 405	Not determined.
Irritant effect on skin OECD 404	Not determined.
Sensitization OECD 406	Not determined.
Subacute toxicity	Not determined.
Chronic toxicity	Not determined.
Mutagenicity	Not determined.
Reproduction toxicity	Not determined.
Carcinogenicity / Validation	Not determined.
Experiences made in practice	None.
General remarks	No toxicological data are available. The product was classified on the basis of the calculation procedure of the preparation directive.

12. Ecological information

Fish toxicity	Not determined.
Behaviour in environment compartments	Not determined.
Behaviour in sewage plant	Not applicable.
Bacteria toxicity	Not determined.
Biological degradability	Not applicable.
Chemical oxygen demand (COD)	-
Biochemical oxygen demand (BOD5)	-
AOX-advice	Not applicable.
Contains compounds of 76/464/EC	Not applicable.
General information	Ecological data are not available.

13. Disposal considerations

Disposal / Product	Dispose of as hazardous waste. For recycling, consult manufacturer.
Waste no. (recommended)	150110*
Disposal / Contaminated packaging	Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of as for product.

14. Transport information

Classification according to ADR:

ADR-Class: not classified as Dangerous Goods

Declaration: not classified as Dangerous Goods

Labelling:

Factor, ADR 1.1.3.6:

Hazard-no:

Label:

LQ, ADR 3.4.6:

Vapour pressure [kPa]:

Classification according to IMDG:

IMDG-Code-Class: 9

Declaration: UN 3363, Dangerous Goods in apparatus, 9

Labelling: Dangerous Goods in apparatus, UN 3363, Class: 9

EmS: F-A, S-P

Label: 9

LQ, [l/kg]: SV301

Classification according to IATA:

IATA-DGR-Class: 9

Declaration: Dangerous goods in apparatus, Class: 9 UN 3363

Labelling: Dangerous goods in apparatus UN 3363

Label: Miscellaneous

15. Regulatory information

Labelling: This preparation is a product and therefore it does not require labelling according to EC directives/GefStoffV.

Hazard symbols

Special labelling for certain preparations

Not applicable.

National regulations

Safety Data Sheet 91/155/EEC (gb)
perma FROST with acetic acid



perma-tec GmbH & Co.KG

Revised: 07.06.2004

16. Other informations

R phrases(Information on ingredients - 02)

R 10: Flammable.

R 11: Highly flammable.

R 35: Causes severe burns.

R 36: Irritating to eyes.

R 67: Vapours may cause drowsiness and dizziness.

Regulatory information

EU: 91/155 (2001/58); 67/548 (2001/59); 1999/45 (2001/60); 91/689 (2001/118); 89/542

Transport: ADR (2003); IMDG-Code (31.Amdt.); IATA-DGR (2004)

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