

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

PERKACIT SDMC LIQ-W

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY/UNDERTAKING

Product label name	Sodium dimethyldithiocarbamate
Supplier	Performance Additives Italy S.p.A. Zona Industriale "A" 86039 Termoli (CB) Italy Tel. +39 0875 58941
Emergency telephone	+49 40 30 299 - 0 (only during office hours, Behn Meyer Europe GmbH, Ballindamm 1, D-20095 Hamburg)
Intended use	Vulcanisation accelerator, biocide, water treatment

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a preparation in conformance to EC directives.
Information on hazardous ingredients

Chemical description Sodium dimethyldithiocarbamate

Composition / information on ingredients

Number	% w/w	CAS-number	Chemical name		
Number	EC-number	Annex-1 number	Symbol(s) (EU classification)	Risk-phrase(s)	
1	approx. 40	128-04-1	Sodium dimethyldithiocarbamate		
1	204-876-7		N	R50/53	

Other information Balance: Water.

3. HAZARDS IDENTIFICATION

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Symptoms and effects	May cause alcohol intolerance.
First aid	
General	Do not drink alcohol after exposure.
Inhalation	Always seek medical advice in case of significant exposure
Skin	Wash immediately with soap and water.
Eye	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
Ingestion	Rinse mouth, give water to drink.
Advice to physician	No specific recommendations.

5. FIRE-FIGHTING MEASURES

Extinguishing media	waterspray, water mist, foam, dry chemical powder.
Unsuitable extinguishing media	none known
Special exposure hazards	none known.
Hazardous decomposition / combustion products	Emits toxic fumes under fire conditions: hydrogen cyanide (HCN), sulphur dioxide (SO ₂), nitrous gases (NO _x).
Protective equipment	Wear self contained breathing apparatus.
Other information	Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	For personal protection see Section 8.
Environmental precautions	Do not allow to enter drains or water courses.
Methods for cleaning up	Stop leakage if possible. Collect as much as possible in a clean container for (preferable) reuse or disposal. Cover the remainder with inert absorbent (e.g. vermiculite) for disposal.

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7. HANDLING AND STORAGE

Handling	The usual precautions for handling chemicals should be observed.
Fire and explosion prevention	No specific recommendations.
Storage requirements	Store in a dry and cool place (20-25 °C). Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Provide adequate ventilation.
Exposure limits	
Name	Sodium dimethyldithiocarbamate
	In this country no exposure limit has been established
Personal protection	
Respiratory	No specific recommendations.
Hand	protective gloves recommended.
Eye	Safety goggles recommended.
Skin and body	protective clothing recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Colour	light yellow
Odour	amine like
Boiling point/range	> 100 °C
Melting point/range	< 0 °C
Flash point	not determined
Flammability	not determined
Autoignition temperature	not determined
Explosive properties	not determined
Explosion limits	not determined
Oxidising properties	not applicable
Vapour pressure	approx. 2.2 kPa (20 °C)
Density	1160-1180 kg/m ³
Bulk density	not applicable
Solubility in water	Miscible
Solubility in other solvents	alcohols
pH value	9.5-10.5
Partition coefficient	Log Pow (estimated): -2.41 (EPIWIN v3.10)
n-octanol/water	
Relative vapour density (air=1)	not applicable
Viscosity	not determined

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	Avoid temperatures above 30 °C
Materials to avoid	oxidising agents, strong acid.
Hazardous decomposition products	Carbon disulfide
Other information	During the vulcanisation process, traces of carcinogenic nitrosamines may be formed.

11. TOXICOLOGICAL INFORMATION

Name	Sodium dimethyldithiocarbamate
Acute toxicity	
Oral LD50	rat: 5150 mg/kg (Aqueous solution, 40 %)
Dermal LD50	rat: > 5000 mg/kg (Aqueous solution, 40 %)
Irritation	
Skin	Slightly irritating to skin but not sufficient for classification.
Eye	Slightly irritating to eyes but not sufficient for classification.

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Sensitization	Not sensitizing
Genotoxicity	Not mutagenic No evidence of genotoxic effects in vitro No evidence of genotoxic effects in vivo

12. ECOLOGICAL INFORMATION

Name	Sodium dimethyldithiocarbamate
Ecotoxicity fish	96h-LC50 (Oncorhynchus mykiss, OECD 203): 0.76 mg/l. 96h-LC50 (Poecilia reticulata): 2.6 mg/l (Lit.).
daphnia	48h-EC50 (Daphnia magna, OECD 202): 0.67 mg/l.
algae	96h-IC50 (Raphidocelis subcapitata, OECD 201): 0.19 - 0.26 mg/l. 96h-IC50 (Chlorella pyrenoidosa): 0.8 mg/l (Lit.).
bacteria	3h-EC50 (OECD 209): 3.65 mg/l.
Fate	
Degradation Abiotic	Hydrolytically unstable at pH (Lit.): 3.8: t1/2 = 0.04 hours (20 °C) 5.7: t1/2 = 2.4 hours (20 °C) 7.0: t1/2 = 62 hours (20 °C) 8.0: t1/2 = 483 hours (20 °C) 9.0: t1/2 = 111 days (20 °C)
Bioaccumulation	Bio Concentration Factor (BCF) (calculated): 3.16 (EPIWIN v3.10)

13. DISPOSAL CONSIDERATIONS

Product	Avoid discharge into the environment. Small quantities: According to local regulations. Large quantities: Consult Flexsys for special advice.
Contaminated packaging	According to local regulations.
Other information	Waste code number: Please refer to your specific industry in the European Waste Catalogue.

14. TRANSPORT INFORMATION

<i>Land transport</i>			
ADR class	9	ADR/RID packing group	III
RID class	9	Substance Identification No.	3082
Hazard Identification No.	90	UN number	3082
TREM-Card	http://www.unece.org/trans/danger/publi/adr/adr_linguistic_e.htm		
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (sodium dimethyldithiocarbamate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium dimethyldithiocarbamate)		
<i>Sea transport (IMDG-code / IMO)</i>			
IMO/IMDG code		Class	9
Packing group	III	UN number	3082
EMS	F-A, S-F	Subsidiary Risk	
Marine pollutant	yes		
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (sodium dimethyldithiocarbamate)		
<i>Air transport (ICAO-TI / IATA-DGR)</i>			
ICAO-TI/IATA-DGR		UN number	3082
Class	9	Packing group	III
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (sodium dimethyldithiocarbamate)		

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15. REGULATORY INFORMATION

Chemical description Sodium dimethyldithiocarbamate

Labelling according to EC directives

EC-number none

Classification based on Calculation



DANGEROUS FOR THE ENVIRONMENT (N)

Symbol(s) (EU classification)

R(isk) phrase(s) (EU classification)

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S(afety) phrase(s) (EU classification)

S 60 This material and its container must be disposed of as hazardous waste
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets

German Water Hazard Class (WGK)

2 (VwVwS Anhang 4 Nr. 3)

16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

R-phrase information

Chemical name

Sodium dimethyldithiocarbamate

Risk-phrase(s)

R50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

History

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