

**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

<b>Product label name</b>	Sodium dimethyldithiocarbamate
<b>Supplier</b>	Performance Additives Italy S.p.A. Zona Industriale "A" 86039 Termoli (CB) Italy Tel. +39 0875 58941
<b>Emergency telephone</b>	+49 40 30 299 - 0 (only during office hours, Behn Meyer Europe GmbH, Ballindamm 1, D-20095 Hamburg)
<b>Intended use</b>	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	
1	approx. 40	128-04-1	Sodium dimethyldithiocarbamate	
Number	EC-number	Annex-1 number	Symbol(s) (EU classification)	Risk-phrase(s)
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

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

### 5. FIRE-FIGHTING MEASURES

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

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	For personal protection see Section 8.
<b>Environmental precautions</b>	Do not allow to enter drains or water courses.
<b>Methods for cleaning up</b>	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

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

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

### 10. STABILITY AND REACTIVITY

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

### 11. TOXICOLOGICAL INFORMATION

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

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<b>Sensitization</b>	Not sensitizing
<b>Genotoxicity</b>	Not mutagenic No evidence of genotoxic effects in vitro No evidence of genotoxic effects in vivo

### 12. ECOLOGICAL INFORMATION

<b>Name</b>	Sodium dimethyldithiocarbamate
<b>Ecotoxicity fish</b>	96h-LC50 (Oncorhynchus mykiss, OECD 203): 0.76 mg/l. 96h-LC50 (Poecilia reticulata): 2.6 mg/l (Lit.).
<b>daphnia</b>	48h-EC50 (Daphnia magna, OECD 202): 0.67 mg/l.
<b>algae</b>	96h-IC50 (Raphidocelis subcapitata, OECD 201): 0.19 - 0.26 mg/l. 96h-IC50 (Chlorella pyrenoidosa): 0.8 mg/l (Lit.).
<b>bacteria</b>	3h-EC50 (OECD 209): 3.65 mg/l.
<b>Fate</b>	
<b>Degradation Abiotic</b>	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)
<b>Bioaccumulation</b>	Bio Concentration Factor (BCF) (calculated): 3.16 (EPIWIN v3.10)

### 13. DISPOSAL CONSIDERATIONS

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

### 14. TRANSPORT INFORMATION

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



**Symbol(s) (EU classification)**

DANGEROUS FOR THE ENVIRONMENT (N)

**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

**Date of printing/  
pdf file generated**

13.05.2011

**Revision**

6.1

**Composed by**

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**Changes were made in  
section**

1, 16