



MERCHEM LIMITED

SAFETY DATA SHEET  
MSDS NO:24

## MERCIDE SBEC

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

**Product name** Sodium dibenzylthiocarbamate  
**Supplier** Merchem Limited, 2<sup>nd</sup> Floor, Malankara Centre,  
MG Road, Ernakulam,  
Cochin – 682035, Kerala, India  
Tel: + 91-484-2382285  
Fax: + 91-484-2380199  
+ 91-484-4089300, (Fax. + 91-484-4089310)  
**Emergency telephone** Merchem Limited, Cochin, India

**Intended use** Vulcanization accelerator, water treatment

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on hazardous ingredients

**Chemical description** Sodium dibenzylthiocarbamate

**Composition / information on ingredients**

Number	% w/w	CAS-number	Chemical name	
1	approx. 26		Sodium dibenzylthiocarbamate	
Number	EC-number	Annex-1 number	Symbol(s)	Risk-phrase(s)
1			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** water spray, 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<sub>2</sub>), nitrous gases (NO<sub>x</sub>).  
**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.

### 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. Preferably under dry inert gas.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	liquid
<b>Colour</b>	yellow, light green
<b>Odour</b>	characteristic (weak)
<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>Auto ignition temperature</b>	not determined
<b>Explosive properties</b>	not determined
<b>Explosion limits</b>	not determined
<b>Oxidizing properties</b>	not applicable
<b>Vapour pressure</b>	approx. 2.2 kPa (20 °C)
<b>Density</b>	1070-1090 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>	9.0-11.0
<b>Partition coefficient</b>	not determined
<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>	temperature > 30 °C.
<b>Materials to avoid</b>	oxidizing agents, strong acid.
<b>Hazardous decomposition products</b>	Carbon disulfide
<b>Other information</b>	During the vulcanization process, traces of carcinogenic nitrosamines may be formed.

### 11. TOXICOLOGICAL INFORMATION

<b>Name</b>	Sodium dibenzylthiocarbamate
<b>Acute toxicity</b>	
Oral LD50	rat: >5000 mg/kg.
<b>Irritation</b>	
Skin	Minimally irritating.
Eye	Minimally irritating.
<b>Sensitization</b>	Not sensitizing



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### 12. ECOLOGICAL INFORMATION

<b>Name</b>	Sodium dibenzylidithiocarbamate
<b>Ecotoxicity fish</b>	96h-LC50 (Poe cilia reticulata): 1.64 - 3.94 mg/l. 96h-LC50 (Poe cilia reticulata): 6.9 mg/l (Lit.).
<b>daphnia</b>	48h-EC50 (Daphnia magna): 0.91 mg/l (Lit.)
<b>algae</b>	96 h-EC50 (Chloral a pyrenoidosa): 1.4 mg/l (Lit.).
<b>bacteria</b>	15min-EC50 (Photo bacterium phosphoreum): 1.22 mg/l (Lit.).


### 13. DISPOSAL CONSIDERATIONS

<b>Product</b>	Avoid discharge into the environment. Small quantities: According to local regulations. Large quantities: Consult Merchem 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 (ADR/ RID)</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>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s. (sodium dibenzylidithiocarbamate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium dibenzylidithiocarbamate)		
<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>	no		
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s. (sodium dibenzylidithiocarbamate)		
<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 dibenzylidithiocarbamate)		

### 15. REGULATORY INFORMATION

<b>Chemical description</b>	Sodium dibenzylidithiocarbamate
Labeling according to EC directives	
<b>EC-number</b>	not relevant
<b>Classification based on</b>	Calculation
<b>Symbol(s)</b>	
<b>R(isk) phrase(s)</b>	DANGEROUS FOR THE ENVIRONMENT (N) R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
<b>S(afety) phrase(s)</b>	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



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### **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.

