SANITER® 415

Revision nr.8 Dated 23/10/2018 Printed on 23/10/2018 Page n. 1 / 11 Replaced revision:7

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name SANITER® 415

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Biocide for industrial water

Identified Uses	Industrial	Professional	Consumer
Additive for biocidal effect	SU: 1, 10, 11, 12, 13, 14,	SU: 1, 10, 11, 12, 13, 14,	
	15, 16, 17, 18, 19, 20, 23,	15, 16, 17, 18, 19, 20, 23,	
	24, 4, 5, 6a, 6b, 7, 8, 9.	24, 4, 5, 6a, 6b, 7, 8, 9.	
	ERC: 2, 3, 6b, 7.	ERC: 2, 3, 6b, 7.	
	PROC: 1, 15, 19, 2, 3, 5,	PROC: 1, 15, 19, 2, 3, 5,	-
	8b, 9.	8b, 9.	
	PC: 8.	PC: 8.	

Uses Advised Against

Any use non-professional

Any use not included among those

recommended

1.3. Details of the supplier of the safety data sheet

Name N.C.R. BIOCHEMICAL S.p.A.

Full address Headquarter Via dei Carpentieri, 8 - Zona Industriale il Prato

District and Country 40050 Castello d'Argile (BO)

Italia

Tel. +39 051 6869611 Mon-Fri 8.30-13.00/14.00-16.30

Fax +39 051 6869617

e-mail address of the competent person

responsible for the Safety Data Sheet regulatory@ncr-biochemical.it

1.4. Emergency telephone number

For urgent inquiries refer to Italy:

CAV ospedale Niguarda Ca Granda - Milano 0266101029

CAV Az. Osp. Papa Giovanni XXIII - Bergamo 800 883300

CAV Centro Nazionale di Informazione Tossicologica - Pavia 038224444

CAV Az. Osp. Careggi U.O. Tossicologia Medica - Firenze 0557947819

CAV Policlinico A. Gemelli - Roma 063054343 CAV Az. Osp. A. Cardarelli - Napoli 0817472870 CAV Az. Osp. Univ. Foggia - Foggia 0881732326

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, acute H400 Very toxic to aquatic life.

toxicity, category 1

Hazardous to the aquatic environment, chronic

H410

Very toxic to aquatic life with long lasting effects.

toxicity, category 1



SANITER® 415

Revision nr.8
Dated 23/10/2018
Printed on 23/10/2018
Page n. 2 / 11
Replaced revision:7

SECTION 2. Hazards identification .../>>

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P391 Collect spillage.

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

Sodium dimethyldithiocarbamate

CAS 128-04-1 25 ≤ x < 50 Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1

EC 204-876-7

INDEX

Reg. no. 01-2119543694-32-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

INHALATION: Remove the person to open air and keep at rest in a position that encourages breathing. In case of lack of breathing, irregular breathing or respiratory arrest, perform artificial respiration or have oxygen administered by trained rescuers. Mouth-to-mouth breathing can be dangerous to the rescuer. If the harmful effects persist or are very serious, get medical advice/attention. If the person is not conscious, put him in a safe side position and get medical advice/attention immediately. Ensure good air circulation. Loosen tight clothing such as collars, ties, belts or straps. In case of inhalation of decomposed products in a fire, the symptoms may be delayed. If necessary keep the exposed person under medical supervision for 48 hours.

INGESTION: Rinse the mouth with water. Remove any dental prosthesis. Transport the person in the open air and keep him at rest in a position that favors breathing. If the exposed person is conscious, give him water to drink in small quantities. Discontinue administration if the person claims to vomit, as vomiting may be dangerous. Do not induce vomiting unless directed by a doctor. In case of vomiting, the head should be kept low so that the vomit does not enter the lungs. If the harmful effects persist or are very serious get medical advice/attention. If the person is unconscious, do not give anything by mouth, but put him in a safe side position and get medical advice/attention immediately. Ensure good air circulation. Loosen tight clothing such as collars, ties, belts or straps.

SKIN: Rinse the exposed area with plenty of water. Take off contaminated clothes. Get medical advice/attention if symptoms occur. Wash the contaminated clothes before reusing them.

EYES: Remove any contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids well. Get medical advice/attention in case of irritation.



SANITER® 415

Revision nr.8 Dated 23/10/2018 Printed on 23/10/2018 Page n. 3 / 11 Replaced revision:7

SECTION 4. First aid measures .../>

4.2. Most important symptoms and effects, both acute and delayed

See section 11.

4.3. Indication of any immediate medical attention and special treatment needed

See section 11

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Nothing known.

5.2. Special hazards arising from the substance or mixture

In the event of fire or overheating, the product container may break due to pressure increase. The product is highly toxic to aquatic organisms with long-term effects. Contaminated extinguishing water must be contained and must be kept away from waterways, sewers or drains.

5.3. Advice for firefighters

In case of fire, promptly isolate the area by removing all persons from the area of the accident. Do not take any action that involves any personal risk or without appropriate training.

The basic protection for fire fighting personnel includes helmets, protective boots and gloves that comply with the European standard EN

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not take any action that involves any personal risk or without appropriate training. Prevent entry of unprotected people. Do not touch or walk on spilled material. Avoid breathing vapors or mists. Provide adequate ventilation. In the absence of adequate ventilation, wear a suitable respirator. Wear appropriate personal protective equipment.

6.2. Environmental precautions

Prevent the material from coming in contact with soil, waterways, drains and sewers. Notify the competent authorities if the product enters the sewers, surface water, ground water. Collect the leaked material.

6.3. Methods and material for containment and cleaning up

Contain spills if there are no risks to people. Contact an authorized waste disposal company. A contaminated absorbent material can cause the same danger of the poured product.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid exposure to the product. Please refer to section 8 for the selection of personal protective equipment. Do not disperse in the environment. Store in the original container or a compatible one and keep it tightly closed when not in use. Do not reuse empty containers. Do not eat, drink or smoke during use. Wash hands after use.

7.2. Conditions for safe storage, including any incompatibilities

Storage temperature: 5-35 ° C. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from other incompatible materials (see Section 10) and from food and drink.

Once opened, reseal the container and keep it upright to prevent accidental spillage of the product. The container must always be labeled. Provide adequate containment systems to avoid environmental pollution.

Storage class TRGS 510 (Germany):



SANITER® 415

Revision nr.8 Dated 23/10/2018 Printed on 23/10/2018 Page n. 4 / 11 Replaced revision:7

NPI

VND

24,69

mg/kg bw/d

SECTION 7. Handling and storage .../>>

7.3. Specific end use(s)

The exhaust air should be directed outdoors only through suitable separation or washing devices.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits are listed below when they exist.

Sodium dimethyldithiocarbamate											
Predicted no-effect cor	ncentration	- PNEC									
Normal value in fresh water						0,00061	mg/l				
Normal value in marir	ne water					0,00006	mg/l				
						1					
Normal value for fresh water sediment						0,0022	mg/kg/dw				
Normal value for marine water sediment						0,0002	mg/kg/dw				
Normal value of STP microorganisms						0,0365	mg/l				
Normal value for the food chain (secondary poisoning)						1,72	mg/kg				
Normal value for the terrestrial compartment					0,4053	mg/kg/dw					
Health - Derived no-effe	ect level - D	NEL / DMEL									
	Effects on consumers Effects				Effects on w	vorkers					
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic			
	local	systemic	local	systemic	local	systemic	local	systemic			
Oral		VND		0,1							
				mg/kg bw/d							
Inhalation	VND	VND	VND	0,35	VND	VND	VND	1,41			
				mg/m3				mg/m3			

12.34

mg/kg bw/d

NPI

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

VND

8.2. Exposure controls

Skin

Considering that the use of adequate technical measures should always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration.

The individual protection devices must bear the CE marking attesting their compliance with the regulations in force.

HAND PROTECTION

The use of protective gloves is recommended (reference EN 374). For the final choice of the work glove material, the process of using the products and any other products deriving from them must also be evaluated. It is also recalled that latex gloves can give rise to sensitization phenomena.

PROTECTION OF EYES

It is advisable to wear safety glasses (ref EN 166).

NPI

PROTECTION OF THE SKIN AND BODY

Wear protective clothing and safety shoes (see Directive 89/686 / EEC and EN ISO 20344).

VND

RESPIRATORY PROTECTION

In case of insufficient ventilation use adequate respiratory protection.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information Appearance liquid Colour light yellow Odour amino Odour threshold Not available 9,5 ÷ 10,5 sol. 1% Melting point / freezing point Not available Initial boiling point 100



SANITER® 415

SECTION 9. Physical and chemical properties

Boiling range Flash point Evaporation Rate

Flammability of solids and gases

Lower inflammability limit Upper inflammability limit Lower explosive limit Upper explosive limit Vapour pressure Vapour density Relative density Solubility

Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature

Explosive properties Oxidising properties

Viscosity

Not available 60 °C

Not available

not applicable because the product is liquid

Not available Not available Not applicable Not applicable Not available Not available 1,14 ÷ 1,18 soluble in water Not available Not applicable

Not available < 100 cPs (25°C/LCP/100 RPM)

not applicable because it does not contain any explosives functional groups not applicable because it does not contain any oxidizing functional groups

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

No available information.

Sodium dimethyldithiocarbamate Reacts with: strong acids, metals.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Avoid contact with strong acids and metals.

Sodium dimethyldithiocarbamate

Keep away from: strong acids, metals.

10.5. Incompatible materials

Strong acids, metals.

10.6. Hazardous decomposition products

Carbon oxides, nitrogen oxides, sulfur oxides.

Sodium dimethyldithiocarbamate

In decomposition develops: sulphurous anhydride, sulphuric anhydride, carbon dioxide, carbon monoxide, nitric oxide.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Sodium dimethyldithiocarbamate

Unless otherwise specified in the following paragraphs, for the involved substance toxicological data in the following list are considered not available: acute toxicity, skin corrosion/irritation, serious eye damage/irritation, respiratory or skin sensitisation, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT - single exposure, STOT - repeated exposure, aspiration hazard.

Metabolism, toxicokinetics, mechanism of action and other information



SANITER® 415

Revision nr.8 Dated 23/10/2018 Printed on 23/10/2018 Page n. 6 / 11 Replaced revision:7

SECTION 11. Toxicological information .../>>

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sodium dimethyldithiocarbamate

Clinical signs: Increased salivation for a short time for both genders after treatment with 250 mg / kg / day.

Mortality: No mortality detected.

Consumption of water and food: Food consumption is reduced as a function of weight reduction. Food efficiency is reduced by showing impairment of food function. No difference in water consumption.

Hematology: Hemophilia effects for both genders treated with 50 and 250 mg / kg / day accompanied by increased mean

hemoglobin content (MCH) and medium corpuscular volume (MCV).

Clinical chemistry: in males treated with 250 mg / kg / day there is an increase in protein, sodium and cholesterol in plasma levels.

Neuro behavior: Hunched posture and tiptoe walk from the fourth week of treatment.

Weight of organs: enlarged kidney, liver and spleen for both genders treated with 250 mg / kg / day.

Chronic potential health effects:

Repeated dose toxicity, oral (subchronic): NOAEL = 24,4 mg/kg bw/day (rat, OECD 408, reliability 1)

Repeated dose toxicity, dermal (subacute): NOAEL = 93,7 mg/kg bw/day (rabbit, 21 days).

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

LD50 (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

LD50 (Dermal) of the mixture:

Not classified (no significant component)

Sodium dimethyldithiocarbamate

LD50 (Oral) > 2500 mg/kg Rat, according to OECD Guideline 423 Reliability 1
LD50 (Dermal) > 5000 mg/kg Rat, according to OECD Guideline 402 Reliability 1

The following data refer to the product. Acute oral toxicity: LD50 (rat) > 2500 mg/kg Acute dermal toxicity: LD50 (rat) > 2000 mg/kg.

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

Sodium dimethyldithiocarbamate

Based on available data, the classification criteria are not met.

During tests in rabbits the substance caused a slight reversible irritation within 4 hours (OECD 404, reliability 1).

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

Sodium dimethyldithiocarbamate

Based on available data, the classification criteria are not met.

During tests in rabbits the substance caused a slight reversible irritation within 7 days or less (OECD 405, reliability 1).

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Skin sensitization

Sodium dimethyldithiocarbamate

Based on available data, the classification criteria are not met. It does not cause sensitization (study on guinea pig according to OECD 406, reliability 1).

GERM CELL MUTAGENICITY



SANITER® 415

Revision nr.8 Dated 23/10/2018 Printed on 23/10/2018 Page n. 7 / 11 Replaced revision:7

SECTION 11. Toxicological information .../>>

Does not meet the classification criteria for this hazard class

Sodium dimethyldithiocarbamate

Based on available data, the classification criteria are not met. Not mutagenic in a standard battery of genetic toxicological tests.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Sodium dimethyldithiocarbamate

Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Sodium dimethyldithiocarbamate

Based on available data, the classification criteria are not met.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Sodium dimethyldithiocarbamate

Based on available data, the classification criteria are not met.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Sodium dimethyldithiocarbamate

Based on available data, the classification criteria are not met.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

Sodium dimethyldithiocarbamate

Based on available data, the classification criteria are not met.

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Sodium dimethyldithiocarbamate

Toxicity to microorganisms: EC50/3h = 3,65 mg/l (activated sludge, OECD 209, reliability 1).

Sodium dimethyldithiocarbamate

LC50 - for Fish 0,76 mg/l/96h Oncorhynchus mykiss, OECD Guideline 203 Reliability 1

EC50 - for Crustacea 0,67 mg/l/48h Daphnia magna, according to OECD Guideline 202, reliability 1

EC50 - for Algae / Aquatic Plants 0,0012 mg/l/96h Pseudokirchneriella subcapitata, according to OECD Guideline 201,

Reliability 1

Chronic NOEC for Fish 0,101 mg/l Pimephales promelas 33 d, according to OECD Guideline 210, Reliability 2

Chronic NOEC for Crustacea 0,039 mg/l Daphnia Magna 21d, according to OECD Guideline 211, Reliability 2

Chronic NOEC for Algae / Aquatic Plants 0,0038 mg/l Pseudokirchneriella subcapitata 96h, according to OECD Guideline 201,

Reliability 1

12.2. Persistence and degradability

Sodium dimethyldithiocarbamate

Rapidly degradable 67%, 28d, OECD 301D

12.3. Bioaccumulative potential



SANITER® 415

Revision nr.8 Dated 23/10/2018 Printed on 23/10/2018 Page n. 8 / 11 Replaced revision:7

SECTION 12. Ecological information .../>>

Sodium dimethyldithiocarbamate

Partition coefficient: n-octanol/water -2,41 BCF 0,84

12.4. Mobility in soil

Sodium dimethyldithiocarbamate

Partition coefficient: soil/water < 0,682

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Comply with all local and national regulations. Contact an accredited waste treatment company. Warning: the product or its container can contaminate the water and the soil; prevent their dispersal.

Empty containers must be cleared and disposed of in an authorized center.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not

submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or

5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to

IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (sodium dimethyldithiocarbamate) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (sodium dimethyldithiocarbamate) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (sodium dimethyldithiocarbamate)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



14.4. Packing group

ADR / RID, IMDG, IATA: III

SANITER® 415

Revision nr.8
Dated 23/10/2018
Printed on 23/10/2018
Page n. 9 / 11
Replaced revision:7

SECTION 14. Transport information .../>>

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous



14.6. Special precautions for user

ADR / RID: HIN - Kemler: 90 Limited Quantities: 5 L Tunnel restriction code: -

Special Provision: - IMDG: EMS: F-A, S-F

IMDG:EMS: F-A, S-FLimited Quantities: 5 LIATA:Cargo:Maximum quantity: 450 LPackaging instructions: 964Pass.:Maximum quantity: 450 LPackaging instructions: 964

Special Instructions: A97, A158

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 3: Severe hazard to waters

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

ΕN



N.C.R. BIOCHEMICAL S.p.A.

SANITER® 415

SECTION 16. Other information .../>>

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Use descriptor system:

ERC 2 Formulation into mixture
ERC 3 Formulation into solid matrix

ERC 6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 Use of functional fluid at industrial site

PC 8 Biocidal products

PROC 1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

containment conditions.
Use as laboratory reagent

PROC 15 Use as laboratory reagent
PROC 19 Manual activities involving hand contact

PROC 2 Chemical production or refinery in closed continuous process with occasional controlled exposure or

processes with equivalent containment conditions

PROC 3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled

exposure or processes with equivalent containment condition

PROC 5 Mixing or blending in batch processes

PROC 8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

SU 1 Agriculture, forestry, fishery

SU 10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU 11 Manufacture of rubber products

SU 12 Manufacture of plastics products, including compounding and conversion SU 13 Manufacture of other non-metallic mineral products, e.g. plasters, cement

SU 14 Manufacture of basic metals, including alloys

SU 15 Manufacture of fabricated metal products, except machinery and equipment
SU 16 Manufacture of computer, electronic and optical products, electrical equipment

SU 17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment

SU 18 Manufacture of furniture SU 19 Building and construction work

SU 20 Health services

SU 23 Electricity, steam, gas water supply and sewage treatment

SU 24 Scientific research and development SU 4 Manufacture of food products SU 5 Manufacture of textiles, leather, fur SU 6a Manufacture of wood and wood products Manufacture of pulp, paper and paper products SU 6h SU 7 Printing and reproduction of recorded media

SU 8 Manufacture of bulk, large scale chemicals (including petroleum products)

SU 9 Manufacture of fine chemicals

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds



SANITER® 415

Revision nr.8 Dated 23/10/2018 Printed on 23/10/2018 Page n. 11 / 11 Replaced revision 7

SECTION 16. Other information .../>>

- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 03 / 11 / 12.

Exposition Scenarios

Substance Sodium dimethyldithiocarbamate

Scenario Title SE_SDMC

Revision nr. 5

File EN_SESDMC_5.pdf