

Carbon disulfide**180173-1L**

Version 1.1

Revision Date 08/23/2018

Print Date 06/01/2023

SECTION 1. IDENTIFICATION

Product name : Carbon disulfide

Number : 000000020250

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid

Color : colourless

Odor : unpleasant

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Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 2
Acute toxicity, Category 4, Inhalation
Skin irritation, Category 2
Eye irritation, Category 2A
Reproductive toxicity, Category 2
Specific target organ toxicity - repeated exposure, Category 1,
Nervous system, Cardio-vascular system

GHS Label elements, including precautionary statements

Symbol(s)

:



Signal word

: Danger

Hazard statements

: Highly flammable liquid and vapour.
Causes skin irritation.
Causes serious eye irritation.
Harmful if inhaled.
Suspected of damaging fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

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Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/ attention.
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : CS₂

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Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Carbon Disulfide	75-15-0	100.00 %

SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : If inhaled, remove to fresh air. Call a physician immediately.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
- Ingestion : Rinse mouth, ingest activated charcoal. Do NOT induce vomiting. Call a physician immediately.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO2)
Dry powder
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : Highly flammable.
Vapours may form explosive mixtures with air.
Vapours are heavier than air and may spread along floors.
Vapors may travel to areas away from work site before

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igniting/flashback to vapor source.
Fire may cause evolution of:
Carbon monoxide
Carbon dioxide (CO₂)
Sulphur oxides

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Ensure adequate ventilation.
Remove all sources of ignition.

Environmental precautions : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Ventilate the area.
Do not use sparking tools.
Use explosion-proof equipment.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.

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Advice on protection against fire and explosion : Keep product and empty container away from heat and sources of ignition.
No smoking.
Take precautionary measures against static discharges.
Vapours may form explosive mixtures with air.

Storage

Conditions for safe storage, including any incompatibilities : Store in area designed for storage of flammable liquids. Protect from physical damage.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Do not breathe vapours or spray mist.

Engineering measures : Use with local exhaust ventilation.
Prevent vapour buildup by providing adequate ventilation during and after use.

Eye protection : Safety goggles

Hand protection : Impervious gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Flame retardant antistatic protective clothing.

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures : Take off all contaminated clothing immediately.

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Remove and wash contaminated clothing before re-use.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Carbon Disulfide	75-15-0	TWA : Time weighted average	(1 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Carbon Disulfide	75-15-0	SKIN_DES : Skin designation:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
Carbon Disulfide	75-15-0	REL : Recommended exposure limit (REL):	3 mg/m3 (1 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Carbon Disulfide	75-15-0	STEL : Short term exposure limit	30 mg/m3 (10 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Carbon Disulfide	75-15-0	SKIN_DES : Skin designation:	Can be absorbed through the skin.	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards

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Carbon Disulfide	75-15-0	SKIN_FI NAL : Skin designati on (Final Rule Limit applies):	Can be absorbed through the skin.	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Carbon Disulfide	75-15-0	TWA : Time weighted average	12 mg/m3 (4 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Carbon Disulfide	75-15-0	STEL : Short term exposure limit	36 mg/m3 (12 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Carbon Disulfide	75-15-0	TWA : Time weighted average	(20 ppm)	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000)
Carbon Disulfide	75-15-0	MAX. CONC : Maximum concentr ation:	(100 ppm)	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000)
Carbon Disulfide	75-15-0	Ceiling : Ceiling Limit Value:	(30 ppm)	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

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Color	: colourless
Odor	: unpleasant
Melting point/range	: < -76 °C Method: OECD Test Guideline 102
Boiling point/boiling range	: 46 °C at 1,013 hPa
Flash point	: -22 °F (-30 °C)
Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Vapor pressure	: 27.4 hPa at 25 °C(77 °F)Method: OECD Test Guideline 104
Density	: 1.264 g/cm3 at 20 °C Method: OECD Test Guideline 109
Water solubility	: 2.9 g/l at 20 °C Method: OECD Test Guideline 105
Partition coefficient: n-octanol/water	: log Pow: 2.7 at 25 °C Method: OECD Test Guideline 107

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Auto-ignition temperature : 102 °C
Method: 92/69/EEC, A.15

Decomposition temperature : Note: No decomposition if used as directed.

Molecular weight : 76.14 g/mol

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.
Hazardous polymerisation does not occur.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents
Alkali metals

Hazardous decomposition products : Fire may cause evolution of:
Carbon monoxide
Carbon dioxide (CO₂)
Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 2,000 mg/kg
Species: Rat
Method: OECD 423

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Acute inhalation toxicity	: LC50: 10.35 mg/l , vapour Exposure time: 4 h Species: Rat Method: OECD Test Guideline 403
Acute dermal toxicity	: Note: no data available
Skin irritation	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Eye irritation	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Sensitisation	: Mouse local lymph node assay Species: Mouse Result: non-sensitizing Method: OECD Test Guideline 429
Repeated dose toxicity	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Genotoxicity in vitro	: Note: In vitro tests did not show mutagenic effects
Teratogenicity	: Species: Rabbit No observed adverse effect concentration: 300 ppm No observed adverse effect concentration Parent: 600 ppm Method: OECD Test Guideline 414 Result: Embryotoxic effects and adverse effects on the offspring were detected.

SECTION 12. ECOLOGICAL INFORMATION

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Toxicity to fish	: semi-static test LC50: 3 mg/l Exposure time: 96 h Species: <i>Danio rerio</i> (zebra fish) Method: OECD Test Guideline 203
	: semi-static test LC50: 4 mg/l Exposure time: 96 h Species: <i>Poecilia reticulata</i> (guppy) Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: LC50: 2.1 mg/l Exposure time: 96 h Species: <i>Daphnia</i> (water flea) Method: OECD Test Guideline 202
Toxicity to algae	: Growth rate EC50: 21 mg/l Exposure time: 96 h Species: <i>Chlorella pyrenoidosa</i> (aglae) Method: OECD Test Guideline 201

Biodegradability : Result: Readily biodegradable.
Value: > 80 %
Method: OECD 301 D

Results of PBT assessment
This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	UN/ID No.	: UN 1131
	Proper shipping name	: CARBON DISULPHIDE
	Class	: 3
	Packing group	: I
	Hazard Labels	: 3 (6.1)
IATA	UN/ID No.	: UN 1131
	Class	: 3
		: Not permitted for transport
IMDG	UN/ID No.	: UN 1131
	Description of the goods	: CARBON DISULPHIDE
	Class	: 3
	Packaging group	: I
	Hazard Labels	: 3 (6.1)
	EmS Number	: F-E, S-D
	Marine pollutant	: no

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

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Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components : The following components are subject to reporting levels established by SARA Title III, Section 302:
: Carbon Disulfide 75-15-0

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:
: Carbon Disulfide 75-15-0

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

CERCLA Reportable Quantity : 100 lbs

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California Prop. 65

:



WARNING: This product can expose you to chemicals, listed below, known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Carbon Disulfide

75-15-0

Massachusetts RTK

: Carbon Disulfide

75-15-0

New Jersey RTK

: Carbon Disulfide

75-15-0

Pennsylvania RTK

: Carbon Disulfide

75-15-0

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3*	3
Flammability	: 4	4
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous

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versions.

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