TETRACHLOROETHYLENE EXTRA PURE MSDS



CAS-No.: 127-18-4 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Substance
	:
EC Index-No.	: 602-028-00-4
EC-No.	: 204-825-9
CAS-No.	: 127-18-4
Product code	: 00300
Formula	: C2Cl4
Chemical structure	
Synonyms	: Perchloroethylene / PCE

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin corrosion/irritation, H315 Category 2 Carcinogenicity, Category H351 2 Hazardous to the aquatic H411 environment — Chronic

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

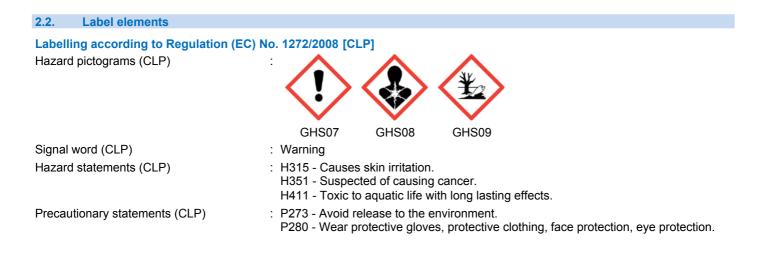
Hazard, Category 2

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Carc.Cat.3; R40 N; R51/53 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available



2.3. **Other hazards**

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	: TETRACHLOROETHYLENE Extra Pure	
CAS-No.	: 127-18-4	
EC-No.	: 204-825-9	
EC Index-No.	: 602-028-00-4	
EC Index-No.	: 602-028-00-4	

Full text of R- and H-statements: see section 16

3.2.	Mixtures		
Not appl	icable		
www.Labo	gens.com	15/04/2016	2/11

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures	
4.1. Description of first aid measure	S
First-aid measures general	: Suspected of causing cancer.
First-aid measures after inhalation	: Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of water/ Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/effects after skin contact	: Causes skin irritation.
Chronic symptoms	: Suspected carcinogen.
-	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	S
6.1. Personal precautions, protective	e equipment and emergency procedures
	o oquipinont and onorgonoy procoduroo
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.
	. Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contai	
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling Precautions for safe handling	· Obtain special instructions before use. Do not bandle until all sofety pressutions
Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

7.2.	Conditions for safe storage	e, including any incompatibilities
Storag	e conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3.	Specific end use(s)	
No add	ditional information available	
SECTION 8: Exposure controls/personal protection		
8.1.	Control parameters	
No add	titional information available	

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	
Physical state	: Liquid
Colour	: Clear Colorless.
Odour	: ethereal odor.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 0.33
Melting point	: -22 °C
Freezing point	: No data available
Boiling point	: 121 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 17.3 hPa at 20°C
Relative vapour density at 20 °C	: 5.7
Relative density	: No data available
Density	: 1.623 g/cm³

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REA	CH) with its amendment Regulation (EU) 2015/830
Solubility	: Water: 0.015 g/100ml
Log Pow	: 3.4
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous rea	actions
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition	products
No additional information available	
	41
SECTION 11: Toxicological informa	
11.1. Information on toxicologica Acute toxicity	al effects : Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

: Not classified Aspiration hazard

Safety Data Sheet

SECTION 12: Ecological information

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.1. Toxicity	
Ecology - water	: Toxic to aquatic life with long lasting effects.
Ecology - water	. Toxic to aquatic me with long lasting enects.
12.2. Persistence and degradability	ity
TETRACHLOROETHYLENE Extra F	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
TETRACHLOROETHYLENE Extra F	Pure (127-18-4)
Log Pow	3.4
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB as	ssessment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in
recommendations	accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	
In accordance with ADD / DID / MADO	
In accordance with ADR / RID / IMDG	
14.1. UN number	
UN-No. (ADR)	: 1897
UN-No. (IMDG)	: 1897
UN-No. (IATA)	: 1897
UN-No. (ADN)	: 1897
UN-No. (RID)	: 1897

14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: TETRACHLOROETHYLENE
Proper Shipping Name (IMDG)	: TETRACHLOROETHYLENE
Proper Shipping Name (IATA)	: Tetrachloroethylene
Proper Shipping Name (ADN)	: TETRACHLOROETHYLENE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Proper Shipping Name (RID)	: TETRACHLOROETHYLENE
Transport document description (ADR)	: UN 1897 TETRACHLOROETHYLENE, 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1897 TETRACHLOROETHYLENE, 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1897 Tetrachloroethylene, 6.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1897 TETRACHLOROETHYLENE, 6.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1897 TETRACHLOROETHYLENE, 6.1, III, ENVIRONMENTALLY HAZARDOUS

Transport hazard class(es) 14.3.

ADR

Transport hazard class(es) (ADR)	
Danger labels (ADR)	

: 6.1 : 6.1



IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)





ΙΑΤΑ

Transport hazard class(es) (IATA)	
Hazard labels (IATA)	

: 6.1 : 6.1



ADN

Transport hazard class(es) (ADN)	
Danger labels (ADN)	

:	6.1	
:	6.1	

6.1 6.1



RID

Transport hazard class(es) (RID)	:
Danger labels (RID)	:

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

:



: 111
: 111
: 111
: 111
: 111

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special	precautions for user
---------------	----------------------

- Overland transport	
Classification code (ADR)	: T1
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S 9
Hazard identification number (Kemler No.)	: 60
Orange plates	60
	1897
Tunnel restriction code (ADR)	: E
EAC code	: 2Z
- Transport by sea	
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
(0p	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Colourless liquid with an ethereal odour. When involved in a fire, evolves extremely toxic fumes (phosgene). Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 160
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y642
PCA limited quantity max net quantity (IATA)	: 2L
PCA packing instructions (IATA)	: 655
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 663
CAO max net quantity (IATA)	: 220L
ERG code (IATA)	: 6L
- Inland waterway transport	
Classification code (ADN)	: T1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: T1
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 60

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TETRACHLOROETHYLENE Extra Pure is not on the REACH Candidate List

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

TETRACHLOROETHYLENE Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen		The substance is not listed The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	TETRACHLOROETHYLENE Extra Pure is listed
Denmark Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to us
5		5 5 <i>j</i>

 Recommendations Danish Regulation
 : Young people below the age of 18 years are not allowed to use the product

 Pregnant/breastfeeding women working with the product must not be in direct contact with the product
 Pregnant/breastfeeding women working with the product must not be in direct

 The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Aquatic Chronic 2	Aquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Carc. 2	Carcinogenicity, Category 2	
Skin Irrit. 2 Skin corrosion/irritation, Category 2		
H315	Causes skin irritation.	
H351	Suspected of causing cancer.	
H411Toxic to aquatic life with long lasting effects.R40Limited evidence of a carcinogenic effect		
		R51/53
Ν	Dangerous for the environment	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product