

Creation Date Oct 2013

Revision Date Oct 2018

Revision Number 2

SECTION1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification

Product Description: 1,2-Dichloroethane
Product Grade: SQ
CatNo. : Q23065, Q23067, Q2306T
Synonyms Ethylenedichloride; EDC
CAS-No 107-06-2
EC-No. 203-458-1
Molecular Formula C₂H₄Cl₂
ReachRegistrationNumber 01-2119484658-20

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

Recommended Use Laboratory chemicals.
Sector of use SU3-Industrialuses: Uses of substances as such or in preparations at industrial sites
Product category PC21-Laboratorychemicals
Process categories PROC15-Useasalaboratoryreagent
Environmental release category ERC6a-Industrialuseresultinginmanufactureof another substance (use of intermediates)
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company Thermo Fisher Scientific India Pvt. Ltd
 403-404, B-wing, Delphi, Hiranandani Business Park,
 Powai, Mumbai 400076, INDIA.
E-mail address laboratorysolutions@thermofisher.com

1.4. Emergency telephone number

India Toll Free: 18 00 22 22 30
 Chemtrec US: (800)424-9300
 Chemtrec EU: 001(202)483-7616

SECTION2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification- Regulation (EC) No 1272/2008

Physical hazards

Flammable liquids

Category 2

Health hazards

Acute oral toxicity

Category 4

Acute Inhalation Toxicity-Vapors

Category 3

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2

Carcinogenicity

Category 1B

Specific target organ toxicity-(single exposure)

Category 3

Environmental hazards

Based on available data, the classification criteria are not met

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

2.2. Label elements



Signal Word

Danger

Hazard Statements

H225-Highly flammable liquid and vapor
H302-Harmful if swallowed
H315-Causes skin irritation
H319-Causes serious eye irritation
H331-Toxic if inhaled
H335-May cause respiratory irritation
H336-May cause drowsiness or dizziness
H350-May cause cancer

Precautionary Statements

P210-Keep away from heat/sparks/open flames/hot surfaces.-No smoking
P280-Wear protective gloves/protective clothing/eye protection/face protection
P302+ P352-IF ON SKIN: Wash with plenty of soap and water
P304+ P340-IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P305+ P351+ P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P311-Call a POISON CENTER or doctor/physician
P362-Take off contaminated clothing and wash before reuse

Additional EU labelling

Restricted to professional users

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification-Regulation (EC) No 1272/2008
Ethylene dichloride	107-06-2	EEC No. 203-458-1	>95	Flam. Liq. 2 (H225) Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) STOT SE 3 (H336) Carc. 1B (H350)

Reach Registration Number

01-2119484658-20

Full text of Hazard Statements: see section 16

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice	Show this safety datasheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Protection of First-aiders	Use personal protective equipment.

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

Breathing difficulties. May cause cardiac arrhythmia. May cause central nervous system depression. Symptoms may include tightness in the chest, flushing, headache, nausea, vomiting, respiratory depression, weakness, irregular heart beat, abdominal pain, convulsions, and shock.

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

Notes to Physician	Treat symptomatically. Symptoms may be delayed. A patient adversely affected by exposure to this product should not be given adrenaline (epinephrine) or similar heart stimulants since these would increase the risk of cardiac arrhythmias.
---------------------------	---

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed container exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flashback. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen chloride gas, Phosgene.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **UK**-EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **IRE** -2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

Component	European Union	The United Kingdom	France	Belgium	Spain
Ethylene dichloride		STEL: 15 ppm 15 min STEL: 63 mg/m ³ 15 min TWA: 5 ppm 8 hr TWA: 21 mg/m ³ 8 hr Carc. Skin	TWA / VME: 10 ppm (8 heures). TWA / VME: 40 mg/m ³ (8 heures).	TWA: 10 ppm 8 uren TWA: 41 mg/m ³ 8 uren	TWA / VLA-ED: 5 ppm (8 horas) TWA / VLA-ED: 20 mg/m ³ (8 horas)

Component	Italy	Germany	Portugal	The Netherlands	Finland
Ethylene dichloride		Haut	TWA: 10 ppm 8 horas	TWA: 7 mg/m ³ 8 uren	TWA: 1 ppm 8 tunteina TWA: 4 mg/m ³ 8 tunteina STEL: 5 ppm 15 minuutteina STEL: 20 mg/m ³ 15

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

					minuutteina lho
--	--	--	--	--	--------------------

Component	Austria	Denmark	Switzerland	Poland	Norway
Ethylenedichloride	TRK-KZW: 20ppm15 Minuten TRK-KZW: 80mg/m ³ 15 Minuten TRK-TMW:5ppm TRK-TMW:20mg/m ³	TWA: 1ppm8timer TWA: 4mg/m ³ 8timer Hud	Haut/Peau TWA: 5ppm8Stunden TWA: 20mg/m ³ 8 Stunden	TWA: 50mg/m ³ 8 godzinach	TWA: 1ppm8timer TWA: 4mg/m ³ 8timer STEL: 1ppm15 minutter. STEL: 4mg/m ³ 15 minutter. Hud

Component	Bulgaria	Croatia	Ireland	Cyprus	CzechRepublic
Ethylenedichloride	TWA: 4.0mg/m ³ STEL : 8.0mg/m ³	kože TWA-GVI: 5ppm8 satima. TWA-GVI: 21mg/m ³ 8 satima.	TWA: 5ppm8hr.TWA: 20mg/m ³ 8hr.STEL: 10 ppm15minSTEL: 40 mg/m ³ 15minSkin		TWA: 10mg/m ³ 8 hodinách. Potentialforcutaneous absorption Ceiling:20mg/m ³

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Ethylenedichloride	Nahk TWA: 1ppm8tundides. TWA: 4mg/m ³ 8 tundides.STEL: 5ppm15 minutites. STEL: 20mg/m ³ 15 minutites.		skin-potentialfor cutaneousabsorption TWA: 10ppm TWA: 40mg/m ³	Ceiling:10mg/m ³ MK	TWA: 1ppm8 klukkustundum. TWA: 4mg/m ³ 8 klukkustundum. Skinnotation Ceiling:2ppm Ceiling:8mg/m ³

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Ethylenedichloride	TWA: 10mg/m ³	TWA: 1ppmIPRD TWA: 4mg/m ³ IPRD Oda STEL: 5ppm STEL: 20mg/m ³			TWA: 7ppm8ore TWA: 30mg/m ³ 8ore STEL: 17ppm15 minute STEL: 70mg/m ³ 15 minute

Component	Russia	SlovakRepublic	Slovenia	Sweden	Turkey
Ethylenedichloride	TWA: 10mg/m ³ Skinnotation STEL: 30mg/m ³ vapor	TWA:5ppm8hodináchT WA: 20mg/m ³ 8 hodinách Potentialforcutaneous absorption STEL: 25ppm15 minútach STEL: 100mg/m ³ 15 minútach	TWA: 5ppm8urahTWA: 20mg/m ³ 8urahSTEL: 20ppm15 minutah STEL: 80mg/m ³ 15 minutah	STV: 5ppm15minuterSTV: 20mg/m ³ 15 minuter LLV:1ppm8timmar. LLV:4mg/m ³ 8timmar. Hud	

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limit values established by the regions specific regulatory bodies.

Monitoring methods

BS EN14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS96 Volatile organic compounds in air. Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Derived No Effect Level (DNEL) See table for values

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

<u>Route of exposure</u>	<u>Acute effects (local)</u>	<u>Acute effects (systemic)</u>	<u>Chronic effects (local)</u>	<u>Chronic effects (systemic)</u>
Oral Dermal Inhalation				62.4mg/kg/day 6.6mg/m ³

Predicted No Effect Concentration (PNEC) See values below.

Freshwater	1.1mg/l
Freshwater sediment	11.1mg/kg
Marine water	0.11mg/l
Marine water sediment	1.11mg/kg
Microorganisms in sewage treatment	27.8mg/l
Soil (Agriculture)	1.8mg/kg

8.2. Exposure controls

Engineering Measures

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eye wash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye Protection	Goggles (European standard-EN166)
Hand Protection	Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Viton(R)	< 315 minutes > 480 minutes	0.3mm 0.7mm	Level 5 Level 6 EN374	Permeation rate 4µg/cm ² /min As tested under EN374-3 Determination of Resistance to Permeation by Chemicals
Butyl rubber	< 70 minutes	0.635mm		
Skin and body protection		Long sleeved clothing		

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Organic gases and vapours filter Type A Brown conforming to EN14387
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask: - Valve filtering: EN405; or; Half mask: EN140; plus filter, EN141 When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

Appearance	Colorless	
PhysicalState	Liquid	
Odor	sweet	
Odor Threshold	400ppm	
pH	Noinformationavailable	
MeltingPoint/Range	-35°C/ -31°F	
Softening Point	Nodataavailable	
Boiling Point/Range	81-85°C/ 177.8-185°F	
FlashPoint	13°C/ 55.4°F	Method -Noinformationavailable
EvaporationRate	6.5(ButylAcetate= 1.0)	
Flammability(solid,gas)	Notapplicable	Liquid
Explosion Limits	Lower 6.2vol% Upper 15.9vol%	
VaporPressure	65mmHg@29°C	
VaporDensity	3.4	(Air= 1.0)
SpecificGravity/Density	1.250	
BulkDensity	Notapplicable	Liquid
WaterSolubility	8.7g/L(20°C)	
Solubility in othersolvents	Noinformationavailable	
Partition Coefficient(n-octanol/water)		
Component	log Pow	
Ethylenedichloride	1.45	
Autoignition Temperature	440-°C/ 824-°F	
DecompositionTemperature	Nodataavailable	
Viscosity	0.8mPasat20°C	
ExplosiveProperties	Noinformationavailable	Vaporsmayformexplosivemixtureswithair
Oxidizing Properties	Noinformationavailable	

9.2. Otherinformation

MolecularFormula	C2H4Cl2
MolecularWeight	98.96

SECTION10:STABILITY ANDREACTIVITY

10.1.Reactivity

Noneknown,basedoninformationavailable

10.2.Chemicalstability

Stableundernormalconditions

10.3. Possibility ofhazardousreactions

HazardousPolymerization	Hazardouspolymerizationdoesnotoccur.
HazardousReactions	Noneundernormalprocessing.

10.4. Conditions toavoid

Incompatibleproducts.Excessheat.Keepawayfromopenflames,hotsurfacesand sourcesof ignition.

10.5.Incompatiblematerials

Strongoxidizingagents.Bases.Alkalimetals.

10.6.Hazardousdecompositionproducts

Carbonmonoxide(CO).Carbondioxide(CO₂).Hydrogenchloridegas.Phosgene.

SECTION11:TOXICOLOGICAL INFORMATION

11.1.Information on toxicological effects

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

Product Information

(a) acute toxicity;

Oral

Category 4

Dermal

Based on available data, the classification criteria are not met

Inhalation

Category 3

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene dichloride	625 mg/kg (Rat) 413 mg/kg (Mouse)	2800 mg/kg (Rabbit)	28.79 mg/L (Rat) 1h 7.8 mg/l (Rat) 4h

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

Respiratory

Based on available data, the classification criteria are not met

Skin

Based on available data, the classification criteria are not met

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

(f) carcinogenicity; Category 1B

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	EU	UK	Germany	IARC
Ethylene dichloride	Carc Cat. 1B		Cat. 2	Group 2B

(g) reproductive toxicity; Based on available data, the classification criteria are not met

(h) STOT-single exposure; Category 3

Results/ Target organs

Respiratory system, Central nervous system (CNS).

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs

No information available.

(j) aspiration hazard;

Based on available data, the classification criteria are not met

Kinematic viscosity:

> 20.5 mm² /s

Symptoms/ effects, both acute and delayed

May cause central nervous system depression. Symptoms may include tightness in the chest, flushing, headache, nausea, vomiting, respiratory depression, weakness, irregular heartbeat, abdominal pain, convulsions, and shock

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

Do not empty into drains.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Ethylene dichloride	LC50: 230-710 mg/L, 96h flow-through (Lepomis macrochirus) LC50: = 225 mg/L, 96h static (Oncorhynchus mykiss) LC50: 110-123 mg/L, 96h flow-through (Pimephales promelas)	EC50: 140-190 mg/L, 48h Static (Daphnia magna)	EC50: = 166 mg/L, 96h static (Desmodesmus subspicatus) EC50: > 433 mg/L, 96h (Pseudokirchneriella subcapitata)	

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

12.2. Persistence and degradability

Persistence

Not readily biodegradable
Persistence is unlikely, based on information available.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Ethylene dichloride	1.45	2

12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. It is likely to be mobile in the environment due to its volatility. It disperses rapidly in air.

12.5. Result of PBT and vPvB assessment

No data available for assessment.

12.6. Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

Persistent Organic Pollutant

This product does not contain any known or suspected substance.

Ozone Depletion Potential

This product does not contain any known or suspected substance.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/ Unused Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

European Waste Catalogue (EWC)

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used. Do not dispose of waste into sewer. Can be incinerated, when in compliance with local regulations.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number UN1184

14.2. UN proper shipping name ETHYLENEDICHLORIDE

14.3. Transport hazard class(es) 3

Subsidiary Hazard Class 6.1

14.4. Packing group II

ADR

14.1. UN number UN1184

14.2. UN proper shipping name ETHYLENEDICHLORIDE

14.3. Transport hazard class(es) 3

Subsidiary Hazard Class 6.1

14.4. Packing group II

IATA

14.1. UN number UN1184

14.2. UN proper shipping name ETHYLENEDICHLORIDE

14.3. Transport hazard class(es) 3

Subsidiary Hazard Class 6.1

14.4. Packing group II

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Ethylene dichloride	203-458-1	-		X	X	-	X	X	X	X	X

Component	REACH(1907/2006)-Annex XIV - Substances Subject to Authorization	REACH(1907/2006)-Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Ethylene dichloride	Carcinogenic Category 1B, Article 57 Application date: May 22, 2016 Sunset date: November 22, 2017 Exemption: None	User restricted. See item 28. (see http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT for restriction details)	SVHC Candidate list - Carcinogenic (Article 57a)

National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Ethylene dichloride	WGK 3	Krebserzeugende Stoffe - Class III : 1 mg/m³ (Massenkonzentration)

Component	France - INRS (Tables of occupational diseases)
Ethylene dichloride	Tableaux des maladies professionnelles (TMP) - RG12

Takenote of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Takenote of Dir 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations

Takenote of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has been conducted by the manufacturer/importer

SECTION 16: OTHER INFORMATION

Full Text of H-/EUH-Statements Referred to Under Section 3

H225-Highly flammable liquid and vapor
H302-Harmful if swallowed
H315-Cause skin irritation
H319-Cause serious eye irritation
H331-Toxic if inhaled
H335-May cause respiratory irritation
H350-May cause cancer
H336-May cause drowsiness or dizziness

Legend

CAS-Chemical Abstracts Service

TSCA-United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS-European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL-Canadian Domestic Substances List/Non-Domestic Substances List

PICCS-Philippines Inventory of Chemicals and Chemical Substances

ENCS-Japanese Existing and New Chemical Substances

IECSC-Chinese Inventory of Existing Chemical Substances

AICS-Australian Inventory of Chemical Substances

SAFETY DATASHEET

1,2-Dichloroethane

Revision Date Oct 2018

KECL-KoreanExistingandEvaluatedChemicalSubstances

NZIoC-NewZealandInventoryof Chemicals

WEL -WorkplaceExposureLimit

ACGIH-AmericanConferenceof GovernmentalIndustrialHygienists

DNEL-DerivedNoEffect Level

RPE-RespiratoryProtectiveEquipment

TWA-TimeWeightedAverage

IARC-InternationalAgencyforResearchonCancer

PNEC-PredictedNoEffect Concentration

LD50-LethalDose50%

LC50-LethalConcentration50%

NoObservedEffect Concentration

Persistent,Bioaccumulative,Toxic

ADR-EuropeanAgreementConcerningtheInternationalCarriageof
DangerousGoodsbyRoad

IMO/IMDG-InternationalMaritimeOrganization/International Maritime
DangerousGoodsCode

EC50-EffectiveConcentration50%NOEC-

POW-PartitioncoefficientOctanol:WaterPBT-

vPvB-veryPersistent,veryBioaccumulative

ICAO/IATA-InternationalCivilAviationOrganization/International Air
TransportAssociation

MARPOL-InternationalConventionforthePreventionof Pollutionfrom
Ships

OECD-OrganisationforEconomicCo-operationandDevelopment

BCF-Bioconcentrationfactor

Keyliteraturereferencesandsourcesfordata

ATE-AcuteToxicityEstimate

VOC-VolatileOrganicCompounds

Suppliersafetydatasheet,Chemadvisor-LOLI, Merckindex,RTECS

Training Advice

Chemicalhazardawarenesstraining,incorporatinglabelling,SafetyDataSheets(SDS),PersonalProtectiveEquipment(PPE)and
hygiene.

Useof personalprotectiveequipment,coveringappropriateselection,compatibility,breakthroughthresholds,care,maintenance,fit
andstandards.

Firstaidforchemicalalexposure,includingtheuseof

eyewashandsafetyshowers.Chemicalincidentresponsetraining.

Creation Date

Oct 2013

Next Revision Date

Oct 2023

Revision Summary

SDS section 1 updated and update to Format.

This safety data sheet complies with the requirements of Regulation (EC)No. 1907/2006

Disclaimer

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.

End of Safety Data Sheet