

Product Name	DICHLORO PROPANE
Part Number	RXSOL-19-1116-02

Company Details:

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Chemical Name	CAS	EC number	Weight	Formula
1,3-Dichloropropane	142-28-9	205-531-3		C3H6Cl2

Signal Word	Warning	Hazard Statements	Precautionary statements	Classification of the substance or mixture	Supplemental Hazard Statements
None.	Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	H226 Flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. P201 + P202 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		

General advice	First aid	Most important symptoms and effects, both acute and delaye	Indication of any immediate medical attention and special treatment needed
Consult a physician. Show this material safety data sheet to the doctor in attendance. If not breathing, give artificial respiration. Consult a physician. Rinse mouth with water. Consult a physician. Remove patient to fresh air, keep warm and at rest and get medical assistance in necessary. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately. described in the labelling (see section 2.2) and/or in section 11 No data available	If inhaled If Eye Contact Swallowed Skin Contact Ingestion	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Wash off with soap and plenty of water. Consult a physician. Remove patient to fresh air, keep warm and at rest and get medical assistance in necessary. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.	

Flammability	Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	Suitable
	Dry powder Dry sand	Unsuitable extinguishing media	Do NOT use water jet. Special hazards arising

from the substance or mixture	Carbon oxides Hydrogen chloride gas	Further information	Use water spray to cool unopened
containers.	Hazardous combustion		
products	Fire may cause the evolution of Sulphur oxides, nitrogen oxides.	Advice for firefighters	Wear self-contained breathing
apparatus for firefighting if necessary.	Protective Equipment	Use personal protective equipment.	Specific Hazards Arising from
the Chemical	Oxides of phosphorus Sodium oxides Not combustible. Fire may cause evolution of: Oxides of phosphorus Ambient fire may		liberate hazardous vapours.

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.	Spillage	Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal.
Enviromental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.	Methods and materials for	
containment and cleaning	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).		

Advice on protection against fire and explosion	Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.	Incompatible materials	Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. For precautions see section 2.2.	Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Storage conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.	Storage class	
Storage class (TRGS 510): 3: Flammable liquids	Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated	Advice on general occupational hygiene
Advice on safe handling	Observe label precautions. Change contaminated clothing. Wash hands after working with substance.	Requirements for storage	Keep in cool and store under shade.

Exposure controls	Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Control parameters	Ingredients with workplace control parameters	Contains no substances with occupational exposure limit values.
Engineering Control	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	Eye/face protection
Face shield and safety glasses	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	Body Protection
Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Fluorinated rubber Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M) Splash contact Material: Fluorinated rubber Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	Other Protection
Measure	Handle in accordance with good industrial hygiene and safety practice.	Control of environmental exposure
Prevent further leakage or spillage if		

safe to do so. Do not let product enter drains.

Gloves Suit

Physical state	Liquid, clear	Colour	Light yellow	Odour	No data available	Odor Threshold	No
data available	pH	No data available	Melting Point	-99 °C - lit.	Boiling Point	120 - 122 °C - lit.	
Flash Point	36 °C - closed cup	Evaporation Rate	Not Applicable	Flammability (solid, gas)	No data available		
Explosive limits	No Data Available	Upper/lower flammability or explosive limits	Not Applicable	Autoignition temperature			
Not Applicable	Decomposition temperature	No data available	Vapour pressure	Not Applicable	Density		
1,19 g/mL at 25 °C - lit.	Relative Density		No data available	Relative vapor density			
No data available	Freezing point	No data available	Viscosity	Not Applicable	Partition coefficient	log Pow:	
2,00	Explosive properties	No data available	Solubility	Not Applicable	Ignition temperature	No information	
available.	Particle characteristics	No data available					

Reactivity	No data available	Stability	Stable under recommended storage conditions.	Possibility of
hazardous reactions	No data available	Conditions to avoid	Heat, flames and sparks.	Incompatible materials
agents, acids, Bases, Aluminum, and its alloys, Plastics, Rubber				Hazardous decomposition products
the event of fire: see section 5				In

Acute toxicity	Oral: No data available	Inhalation: No data available	Dermal: No data available	Skin corrosion/irritation
Remarks: No data available	Serious eye	damage/eye	irritation	Remarks: No data available
sensitization	In vivo assay - Mouse Result: Does not cause skin sensitization. (OECD Test Guideline 429)			Respiratory or skin
May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).				Toxic Effects on
Human				
Carcinogenicity	Remarks: No data available	Germ cell		
mutagenicity	Remarks: No data available	Reproductive toxicity	No data available	Specific target organ toxicity - single
exposure	No data available	Special Remarks on other Toxi	Effects on Humans	Acute Potential Health Effects: Skin: Causes skin
irritation. May cause skin sensitization, an allergic reation, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation.				
Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism.				
Additional Information				
RTECS: TX9660000 Central nervous system depression, Lung irritation, Headache, Coma., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.				
Heart - .				

Bioaccumulative potential	No data available	Persistence and	degradability	No data available	Toxicity to
fish	LC50 - Pimephales promelas (fathead minnow) - 131,00 mg/l - 96 h NOEC - Cyprinodon variegatus (sheepshead minnow) - 38 mg/l - 96 h				
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 280 mg/l - 48 h				Toxicity to algae
Static test NOEC - Pseudokirchneriella subcapitata - 7,95 mg/l (OECD Test Guideline 201)					Static test EC50 -
activated sludge - 563 mg/l - 3 h (OECD Test Guideline 209)	Remarks: (in analogy to similar products)				The value is given in analogy to the following

substances: sodium hypochlorite solution Mobility in soil No Information available Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Other adverse effects No data available

Disposal methods The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging Dispose of as unused product. Waste treatment Method Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

UN number ADR/RID: 1993 IMDG: 1993 IATA: 1993 UN proper shipping name

ADR/RID: Flammable liquid, n.o.s. (1,3-Dichloropropane)

IMDG: Flammable liquid, n.o.s. (1,3-Dichloropropane)

IATA: Flammable liquid, n.o.s. (1,3-Dichloropropane)

Transport hazard class(es) ADR/RID: 3 IMDG: 3 IATA: 3 Packaging group ADR/RID: II IMDG: II
IATA: II Environmental hazards ADR/RID: NO IMDG: NO IATA: NO Further information No data available

Inventory status Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes S24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65. Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : FLAMMABLE LIQUIDS Other regulations Take note of Dir 94/33/EC on the protection of young people at work. Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

Other Information

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