

MATERIAL SAFETY DATA SHEET

Product:

1,2-DICHLOROETHANE (EDC)

Page:1/10 MSDS No.: 001 Version:05 Date: 12.10.17

01 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

PRODUCT NAME SDS No. MANUFACTURER **1,2-DICHLOROETHANE** 001 Qatar Vinyl Company Ltd. P. O. Box 24440, Doha, State of Qatar

EMERGENCY TELEPHONE No.

For Spill, Leak, Fire, Exposure or Accident Call CHEMTRAC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1-703-741-5970 and +1-703-527-3887 (collect calls accepted)

02 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME OF THE SUBSTANCE 1,2-DICHLOROETHANE

Chemical Name	Synonyms	EC-NO.	CAS-No.	Concentration	Classification	Classification
					Directive	Regulation (EC) No
					67/548/EEC	1272/2008 (GHS)
1,2-Dichloroethane	Ethylene Dichloride	203-458-1	107-06-2	> 98.5%	F; R11	Flam. Liq. 2; H225
	-				Xn; R20/22	Acute Tox. 4 (Oral);
					Xi; R36/37/38	H302
					Carc. Cat. 2; R45	Acute Tox. 3
						(Inhalation); H331
						Skin Irrit. 2; H315
						Eye Irrit. 2; H319
						Carc. IB (Oral); H350
						STOT SE 3; H335
						Eye Irrit. 2; I Carc. IB (Oral) STOT SE 3; I

03 - HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS HEALTH EFFECTS PHYSICAL AND CHEMICAL HAZARDS

SPECIFIC HAZARDS / EC

SAFETY INFORMATION : PLEASE READ THIS SHEET CAREFULLY May cause cancer Flammable liquid, 2, H225 Thermal decomposition giving toxic and corrosive products. Toxic May cause cancer, 1B, H350 Inhalation; Acute toxicity, 3, H331 Harmful if swallowed, 4, H302 Eye Irritant, 2, H319 and Skin irritant, 2, H315 Specific target organ toxicity - single exposure, 3, Respiratory tract, H335

LABEL ELEMENTS (REGULATION (EC) NO 1272/2008) IN ACCORDANCE WITH GHS Name: Hazard pictograms:

1, 2-dichloroethane; ethylene dichloride





QVC MSDS CODE : D3.0.2-2 MATERIAL SAFETY DATA SHEET

1,2-DICHLOROETHANE (EDC) Product: Page:2/10 Date : 12.10.17 MSDS No.: 001 Version:05 **Hazard Rating** Toxicity Flammability Reactivity 0 1 2 3 4 Min Low Moderate High Extreme Signal Word : Danger Hazard Statement : Highly flammable liquid and vapor. Harmful if swallowed. Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. May cause cancer if swallowed. May cause respiratory irritation. **Prevention:** Precautionary Statements : Obtain special instructions before use. Keep away from open flames/hot surfaces. - No smoking. Avoid breathing gas/mist/vapors/spray. Use personal protective equipment as required. **Response:** IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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. Storage: Store in a well-ventilated place. Keep container tightly closed. Special labeling : Restricted to professional users. Other hazards : Potential health effects: Harmful by inhalation. Ingestion may cause irritation to mucous membranes. Irritating to nose, throat and respiratory system Direct contact with product: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the Product. Burns of the cornea possible Inhalation: At high vapor/fog concentrations: Neurological disorders Difficulty in breathing Stomach/intestinal disorders Chronic exposure: May cause cancer. **Environmental Effects:** Not readily biodegradable. Practically not bioaccumulable Physical and chemical hazards: Highly flammable liquid Thermal decomposition giving toxic and corrosive products Decomposition products: See chapter 10 Other: Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating, toxic (PBT), nor very persistent, very bioaccumulating (vPvB). Clear, colorless liquid; sweet chloroform-like odor. Irritating to respiratory EMERGENCY OVERVIEW tract. Other Acute Effects: intoxication, CNS depression, vomiting, dizziness, diarrhea, liver/kidney damage, cardiac arhythmia, coma. Death. Possible Human carcinogen. Highly flammable. Reacts violently with amines and finely divided alkali metals.

04 - FIRST AID MEASURES

GENERAL ADVICE INHALATION SKIN CONTACT Take off immediately all contaminated clothing (including shoes) Move to fresh air, Oxygen or artificial respiration. If needed, hospitalize Wash immediately, abundantly and thoroughly with water.



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EYE CONTACT	Wash immediately and abundantly with water for at least If irritation persists, consult an ophthalmologist	15 minutes
INGESTION	Do not induce vomiting Hospitalize immediately	
PROTECTION OF FIRST-AIDERS	In case of insufficient ventilation, wear suitable respiratory Protective suit	equipment.
INDICATION OF IMMEDIATE MEDICAL	Notes to physician:	
ATTENTION AND SPECIAL TREATMENT NEEDED:	Treatment: Do not administer catecholamines (because of t caused by the product).	he cardiac effect
05 - FIRE-FIGHTING MEASURES	LEL . 6 2% . LIEL . 15 0%	
FI ASH POINT	13.0C (56.0F) closed cup	
AUTO-IGNITION TEMPERATURE	413 °C (775 °F)	
SUITABLE EXTINGUISHING MEDIA	Carbon dioxide (CO2)	
	Foam	
	Dry powder	
CDECIEIC LLAZADOC	Water spray	
SPECIFIC HAZARDS	Flignly flammable Vapors form explosive mixture with air	
	Thermal decomposition giving toxic and corrosive product	ts
	At high temperature: formation of Hydrogen chloride gas	
	At high temperature : formation of Phosgene	
ADVICE FOR FIREFIGHTERS	Specific methods:	
	In case of fire nearby, remove exposed containers. Use wat	er spray to cool
	unopened containers. Collect contaminated fire extinguish	ing water
	contaminated fire extinguishing water must be disposed of	f in accordance with
	local regulations. Prohibit all sources of sparks and ignition	n - Do not smoke.
	Special protective actions for fire-fighters:	
	In the event of fire, wear self-contained breathing apparatu	is. Complete suit
	protecting against chemicals.	
06 - ACCIDENTAL RELEASE MEASURES		
PERSONAL PRECAUTIONS, PROTECTIVE	Use personal protective equipment. Ensure adequate venti	lation. Evacuate
EQUIPMENT AND EMERGENCY	non-essential staff and those not equipped with individual	protection
PROCEDURES:	apparatus. Beware of vapors accumulating to form explosit	ve concentrations.
	vapors can accumulate in low areas. Prohibit contact with inhalation of vapors. Prohibit all sources of sparks and igni	ition Do not
	smoke.	
ENVIRONMENTAL PROTECTION	Do not release into the environment	
	Do not let the product enter into drains	
	Contain by damming	
METHODS FOR CLEANING UP		
Recovery	Pump into an inert labeled emergency container	and
Disposal	Destroy the product by incineration	nu
07 - HANDLING AND STORAGE HANDLING		
Technical measures/Precautions	Storage and handling precautions applicable to products : TOXIC, HIGHLY FLAMMABLE, WITH VAPOURS EXPLO	DSIVE IN AIR
	Ensure appropriate exhaust and ventilation at machinery	
	Provide showers, eye-baths	
	Provide self-contained breathing apparatus nearby	
	Provide fire-blanket pearby	
	Provide electrical earthing of equipment.	
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Safe handling advice	Strictly limit the quantities of product in the work a absolutely necessary for the work in hand. Avoid e instructions before use. Open drum carefully as con pressure. Avoid splashing and emission of vapors insufficient ventilation, wear suitable respiratory ec precautionary measures against static discharges. I Do not use air to dry the equipment. Keep well awa	area to those which are exposure – obtain special atent may be under when handling. In case of quipment. Take Do not use air for transfers. ay from naked flames. Use
Hygiene measures :	only explosion-proof equipment. In case of entry in ventilate empty vats and tanks before entering. Take off immediately all contaminated clothing. Pr eyes and inhalation of vapors. When using do not e smoke.	ohibit contact with skin and eat, drink or
	Wash hands after handling. Remove contaminated	clothing and protective
STORAGE	equipment before entering eating areas.	
Technical measures/Storage conditions	 Keep tightly closed in a dry, cool and well-ventilate Keep away from heat and sources of ignition. Do n Protect from light Store protected from moisture and heat Provide a catch-tank in a dyke area Provide electrical earthing of equipment and electrical 	ed place. ot smoke ical equipment usable in
Incompatible products	Acids and bases Oxygen - Oxidizing agents Finely divided metals	
PACKAGING MATERIALS	5	
Recommended	Iron	
Prohibited	Steel Light metals and alloys in the presence of moisture installation in contact with the product	, including parts of the
08 - EXPOSURE CONTROLS / PERSC PROTECTIVE PROVISIONS	DNAL PROTECTION Ensure sufficient air exchange and/or exhaust in w	ork areas. Frequently
CONTROL PARAMETERS	monitor and control the working atmosphere.	
Exposure limits	PEL at QVC site : 1 ppm ; STEL : 2 ppm (based on 1989 OSHA PELs Final Rule, NIOSH REI specifications) FRANCE 1993 : VME= 10 ppm USA-ACCIH 1994 : TI V-TWA = 10 ppm = 40 mg/u	Ls and QVC design
PERSONAL PROTECTION EQUIPMED Respiratory protection	NT Low concentrations or short activity: Full mask. (R complying with EN 141) High concentrations or prolonged activity: Self con	espiratory protection atained Breathing
Hand protection	Apparatus Splash contact, intermittent and prolonged PVC glo According to permeation index EN 374: 1 (time ela	oves $rac{10}$ mins)
Eye protection Skin and body protection :	Safety glasses/goggles At the workplace: Combination with delayed penel Intervention at incident: Complete chemical protec	tration, Safety shoes tion suit, Complete suit,
Specific hygiene measures	Rubber or plastic boots Prohibit contact with skin and eyes and inhalation Do not smoke	of vapors



QVC MSDS CODE : D3.0.2-2

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09-PHYSICAL AND CHEMICAL PROPERT	IFS	
PHYSICAL STATE (20°C)	Liquid	
COLOUR	Colorless to vellow	
ODOUR	Chloroform (approximately)	
nH :	No data available	
BOILING POINT / PANCE	82.6 °C	
MELTING POINT / PANCE	26°C	
DECOMPOSITION TEMPERATURE	-50 C	
ELACH DOINT	Closed cup: 12 °C (DIN 51755 Part 1)	
ALITOICNITION TEMPERATURE	(10 sed cup. 15 °C. (DIN 51755 Fait 1)	
EXPLOSIVE LIMITS	440 C	
Lower	6.2% in volume	
Higher	15.9% in volume	
VAPOUR PRESSURE	102.47 hPa , at 25 °C	
VAPOUR DENSITY	$(20^{\circ}C): 4.1 \text{ kg/m}^3$	
DENSITY	Liquid (20°C) : 1253 kg/m3	
RELATIVE DENSITY (water=1)	1.2455 at 20 °C	
SOLUBILITY		
Water	7.9 g/l at 25 °C	
VISCOSITY, Dynamic	0.829 mPa s (cP), at 20 °C	
(10 000111) D y i milite	0.775 mPa s (cP), at 25 °C	
EXPLOSIVE PROPERTIES	Not relevant (due to the chemical structure)	
OXIDIZING PROPERTIES	Not relevant (due to the chemical structure)	
Solvents	Soluble in :	
Solvents	Alcohols	
	Acetone	
	Ethyl Ethor	
	Carbon Totrachlorido	
	Aromatic Hydrocarbons	
PARTITION COFFEICIENT (p. octanol (water)	log Kow : 1.45 at 20 °C (OECD Guideline 117)	
OTHER DATA	Product consitivo to light	
OTTIER DATA	Water solubility : 7.9 g/l at $25 ^{\circ}\text{C}$	
	Olfactory threshold : 10,400 mg/m3	
	Honry's constant : 077 Pa m ² /mol	
	Surface tension \cdot 32.45 mN/m at 20 °C \cdot 31.75 mN/m at 25 °C	-
	Molecular Weight: 98 96 g/mol	-
	Noteedaal Welgin. 90.90 g/ mor	
10 - STABILITY AND REACTIVITY		
REACTIVITY AND CHEMIAL STABILITY	Stable under recommended storage conditions.	
CONDITIONS TO AVOID	Heat, flames and sparks	
	Protect from light	
	Store protected from moisture and heat	
MATERIALS TO AVOID	Acids and bases	
	Oxygen - Oxidizing agents ; possible formation of : Explosiv	e compounds or
	those sensitive to impact	-
	Finely divided metals	

THERMAL DECOMPOSITION HAZARDOUS DECOMPOSITION PRODUCTS

At high temperature: Thermal decomposition giving toxic and corrosive products :, Hydrogen chloride gas, Phosgene

Aluminum - Magnesium - Zinc - Titanium

Risk of : Explosive reaction

300°C



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11 - TOXICOLOGICAL INFORMATION ACUTE TOXICITY	
Inhalation	Harmful by inhalation.
- in man :	Effects of breathing high concentrations of vapor may include: Neurological disorders, Stomach/intestinal disorders, Difficulty in breathing, Risk of pulmonary edema_Possible hepato-renal (liver & kidney) problems_Pisk of mortality
- in animals :	LC50/4 h/rat: 7,8 mg/l
Ingestion	Harmful if swallowed.
- in man	Ingestion may cause irritation to mucous membranes. Risk of : Stomach/intestinal disorders, Neurological disorders, Difficulty in breathing,
	Possible hepato-renal (liver & kidney) problems, Risk of pulmonary edema, Risk of mortality
- in animal	LD50/rat: 413 mg/kg
Skin-contact	Slightly harmful in contact with skin
- in man	Skin penetration is possible
- in animal	LD50/rabbit: 4.890 mg/kg
LOCAL EFFECTS (Corrosion / Irritation /	
Serious eye damage):	
Skin-contact	Irritating to skin.
	• In man : Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing
	Properties of the product. (Direct contact with product) • In animals: Skin irritation (rabbit)
Eye-contact	 Irritating to eyes. In man: Possible irritation of eyes, Burns of the cornea possible (Direct contact with product) In animale: Eye irritation (rabbit)
Respiratory or skin sensitization :	in animals. Eye in ration (rabbit)
Inhalation :	No data is available
Skin contact :	Not a skin sensitizer
Skirconact.	• In animals: Not a skin sensitizer (Method : OECD Test Guideline 406 LLNA:
CMR EFFECTS	Local Lymph Noue Assay, guinea pig)
Mutagenicity :	Several in vivo and in vitro tests indicate potential genotoxicity In vitro
	Ames test in vitro: Inconclusive results
	Chromosome aberration test in vitro: Inconclusive results
	In vitro gene mutations test on mammalian cells: positive
	In vivo
	Micronucleus test in vivo mouse: negative
	Sister chromatid exchange assay: positive
Carcinogenicity :	Possible cancer hazard
-	According to limited available data in animals : At high dose:
	Several localized tumors. (rat, mouse, Different methods of administration)



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Reproductive toxicity :	Fertility: According to limited available data in animals : Absence of toxic effects on fertility NOAEL: 50 mg/kg bw/d (By oral route) NOAEL: 617 mg/m3 (By inhalation) Foetal development: According to available experimental data: Absence of congenital malformations and embryoto toxic doses for the mothers NOAEL: 158 mg/kg bw/d (By oral route) NOAEL: 158 mg/kg bw/d (By oral route)	oxic effects in rodents at non-
SDECIEIC TA DCET ODCANI TOVICITY	NOAEL: 1200 mg/m3 (By inhalation)	
Single Exposure :	 Inhalation: Irritating to nose, throat and respirator Olfactory threshold: 3 - 100 ppm Repeated exposure: In man : Oral / Inhalation: Nervous problems, Liver disorde Stomach/intestinal disorders In animals: By inhalation: NOAEL= 41.1 mg/m3 (mouse, Severa By oral route: NOAEL= 37.5 mg/kg (rat, several motion) 	y system rs, Kidney disorders, al years) mths)
12 - FCOLOGICAL INFORMATION		
MOBILITY PERSISTENCE/DEGRADABILITY	Rapid evaporation : t ¹ / ₂ life = 3.8 h (calculated) Distribution among environmental compartment Water: 4,85 % Air: 95,0 % (Method: Calculation according Mackay, Level I) Henry constant: 97,7E+00 Pa.m3/mol Surface tension: 32,45 mN/m 20 °C; 31,75 mN/r Absorption / desorption: In soils and sediments: 1,5 - 1,6, Koc: 33 (Method: calculated) Biodegradation (In water): Not readily biodegra Photodegradation (In air): Degradation by radicals OH: Overall half-life time	nts : n 25 °C Slight adsorption , log Koc: ndable. ne: 42 - 73 d
BIOACCUMULATION	Practically not bioaccumulable Partition coefficient: n-octanol/water: log Kow : OECD Guideline 117) Bioconcentration factor (BCF): 2 (21 d, Method: C macrochirus (Bluegill sunfish))	1,45 , at 20 °C (Method: DECD Guideline 305, Lepomis
ECOTOXICITY		

AQUATIC TOXICITY



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Acute toxicity	Fish: Slightly harmful to fish LC50, 96 h (Pimephales promelas (fathead minnow)) : 136 OECD Guideline 203)	mg/l (Method:
	Aquatic invertebrates: Slightly harmful to daphnia EC(1)50, 48 h (Daphnia magna (Water flea)) : 155 mg/l (M Guideline 202) Aquatic plants: Slightly harmful to algae	ethod: OECD Test
	ECb50, 72 h (Selenastrum capricornutum) : 166 mg/l (Met Guideline 201, test of inhibition of growth)	thod: OECD Test
Long term toxicity	Microorganisms: EC50, 3 h (Activated sludge) : 2.780 mg/l (Method: OECD Respiration inhibition) Fish:	Guideline 209,
long term toxicity	NOEC, 32 d (Pimephales promelas (fathead minnow)) : 29 Aquatic invertebrates: EC0, 28 d (Daphnia) : 10,7 mg/l (Reproduction inhibition)	9 - 59 mg/l
NON AQUATIC TOXICITY Acute toxicity RESULTS OF PBT AND VPVB ASSESSMENT :	LC50, 48 h (Eisenia fetida (earthworms)) : 0,060 mg/cm ² (This substance is not considered to be persistent, bioaccur nor very persistent, very bioaccumulating (vPvB).	Method: contact test) nulating, toxic (PBT),
13 - DISPOSAL CONSIDERATIONS DISPOSAL OF PRODUCT		
	Waste treatment: Disposal of product: Do not dispose of waste into sewer. accordance with local regulations. Disposal of packaging: Do not release into the environme	Dispose of in ent.
14 - TRANSPORT INFORMATION	1184	
PROPER SHIPPING NAME	ETHYLENE DICHLORIDE	
LABEL		
ADR	Class : 3 ; Label : 3 (6.1) ; PG : II ; environmentally hazardo	ous : no
IMDG	Class : 3 ; Label : 3 (6.1) ; PG : II ; environmentally hazardo Class : 3 ; Label : 3 (6.1) ; PG : II ; environmentally hazardo Number: F-E, S-D	ous : no; EmS
IATA (Cargo or Passenger)	Class: 3; Label: 3 (6.1); PG: II; environmentally hazardo	ous : no
15 - REGULATORY INFORMATION SAFETY DATA SHEETS EC CLASSIFICATION / LABELLING Additional regulations (European Union)	According to Regulation (EC) No. 1907/2006 (EC) No 1272/2008 (GHS) EU. Regulation EC No. 689/2008, concerning the export a	nd import of

dangerous chemicals Regulation EC N°1907/2006, (REACH Regulation), Annex XVII, entry 28



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LISTED IN	The Equipment and Protective Systems Intended Explosive Atmospheres Regulations 1996, Statute of 1996. Hazardous Waste Regulation 2005	for Use in Potentially ory Instruments number 192
	The Water Environment (Water Framework Direc Regulations 2003. 2003, Statutory Instrument (SI), 2003.	ctive) (England and Wales) , number 3242, 10 December
	Inventory of Sources and Releases Reporting For Agency, United Kingdom. As amended by 2002 I Substances Lists, 2002.	m, 1999. Environment Pollution Inventory
	Young workers 94/33/EC Banned and/or restric Pregnant workers 92/85/EEC Banned and/or res UK REGULATION Chip3: Chemical (Hazard Info Supply) Regulations 2002.	ted. stricted. ormation and Packaging for
HAZARDOUS SUBSTANCES	Major Accident Hazard Legislation, Highly flam F_HIGHLY FLAMMABLE T_TOXIC R45 May cause cancer	nable.
	R11_ Highly flammable R22_Harmful if swallowed R36/37/38_Irritating to eyes, respiratory system S53_Avoid exposure - obtain special instructions	and skin before use
	S45_In case of accident or if you feel unwell, seek (show the label when possible) Restricted to professional users	medical advice immediately
INVENTORIES	EINECS : Conforms to TSCA (USA) : Conforms to DSL (Canada): All components of this product ar ENCS (Japan) : Conforms to AICS (Australia) : Conforms to	e on the Canadian DSL list.
	KECI (KR) : Conforms to PICCS (PH): Conforms to IECSC (CN): Conforms to NZIOC: Does not conform	
16 - OTHER INFORMATION		
Full text of R, H, EUH-phrases referred to	R11 Highly flammable.	
under sections 2 and 3	R36/37/38 Irritating to eyes, respiratory system a	and skin.
	R45 May cause cancer.	
	H302 Harmful if swallowed.	
	H315 Causes skin irritation.	
	H319 Causes serious eye irritation. H331 Toxic if inhaled.	
	H335 May cause respiratory irritation.	
RECOMMENDED LISES	H350 May cause cancer if swallowed.	
RECONTREME OF COLO	Organic synthesis	
	Stripping : Paints and varnishes, Inks	
	Degreasing : Metals Extraction agent (solvent)	
BIBLIOGRAPHY REFERENCES	Fiche toxicologique INRS : N° 54 : 1,2-DICHLOR	JETHANE
FURTHER INFORMATION	Restricted to professional users.)AFI)
	LOAEL : Lowest Observed Adverse Effect Level	(LOAEL)
	bw : Body weight	
	dw : Dry weight	



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This information applies to the PRODUCT AS SUCH and conforming to specifications of QVC.

In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear.

The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. However the revision of some data is in progress.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes.

The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product.

It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.