


SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE SUPPLIER

(a) Product Identifier	LSC COLOUR CONTAINER PAINT
(b) Other means of identification	LSC Container Paint Packaging: PVC Container: 18kg
(c) Recommended use and restrictions on use	For containers enamel paints. Suitable use for steel surfaces.
(d) Details of the principal supplier	LSC Chemical & Paints Sdn. Bhd, No. 39, Jalan Bestari 2/KU7, Kawasan Perindustrian Kapar Bestari, 42200 Kapar, Selangor, Selangor Darul Ehsan, Malaysia. Tel.: + 603-3292 8816
(e) Email	lsc_cp@hotmail.com

2. HAZARD IDENTIFICATION

(a) Classification of substance/mixture and any nation or regional information	
Physical: flammable liquids – category 3.	Health: acute toxicity – category 2.
Environment: chronic hazard – category 2.	
(b) Label elements	
Hazard Pictogram	
	
Signal word : Danger	
Hazard statements	H226 : Flammable liquid and vapour H315 : Causes skin irritation H317 : May cause allergic skin reaction H319 : Causes serious eye irritation H351 : Suspected of causing cancer H360 : May damage fertility or the unborn child H370 : Causes damage to respiratory organs, liver, central nervous system, kidney, systemic toxicity, anesthetic action, respiratory tract irritation, through. H372 : Causes damage to respiratory organs, nervous system, liver, blood, spleen through prolonged or repeated exposure. H401 : Toxic to aquatic life H411 : Toxic to aquatic life with long lasting effects
Precautionary statements - prevention	P210 : Keep away from ignition sources such as heat/sparks/open flame. - No smoking. P233 : Keep container tightly closed. P241 : Use explosion-proof electrical/ventilation/lighting/equipment by the manufacturer/supplier or the competent authority. P242 : Use only non-sparking tools.

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	<p>P243 : Take precautionary measures against static discharge.</p> <p>P260 : Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P264 : Wash hands and exposed body thoroughly after handling.</p> <p>P272 : Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 : Avoid release to the environment.</p> <p>P280 : Wear protective gloves, glasses and respirator.</p>
Precautionary statements - response	<p>P304+P340+P310 : IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a doctor/physician.</p> <p>P301+P310+P330+P331 : IF SWALLOWED : Immediately call a doctor/physician. Rinse mouth. Do NOT induce vomiting.</p> <p>P305+P351+P338+P337+P313 : IF IN EYES : Rinse cautiously with water for minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.</p> <p>P303+P361+P352 : IF ON SKIN (or hair) : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.</p> <p>P302+P333+P313 : IF ON SKIN : If skin irritation or rash occurs, get medical advice/attention.</p> <p>P314 : Get medical attention/advice if you feel unwell.</p> <p>P363 : Wash contaminated clothing before reuse.</p> <p>P391 : Collect spillage.</p>
Precautionary statements - storage	P403 + P235 Store in a well-ventilated place. Keep cool.
Precautionary statements - disposal	P501 Dispose of contents/container to in accordance with local/international regulation.
(c) Others hazards	<p>It is a flammable liquid and explosive if a steam piles up.</p> <p>It may possibly cause intoxication of organic-solvent.</p> <p>It contains a substance to cause mutagenic.</p>

3. COMPOSITION AND INFORMATION OF THE INGREDIENTS

Ingredient name	CAS No.	Content Weight %
Poly[2-(chloromethyl) oxirane-alt-propane-2,2-diyldiphenol]	25068-38-6	5 - 10
Xylene	1330-20-7	10 - 15
Ethylbenzene	100-41-4	5 - 10
Solvent naphtha (petroleum), light aromatic	64742-95-6	15 - 20
2-Propanol	67-63-0	1 - 5

* According to the list of classified chemicals specified in Part 1 of the Industry Code of Practice on Chemicals Classification and Hazard Communication.

4. FIRST AID MEASURES

(a) Description of first aid measures	
Inhalation	Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.
Skin	Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

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Eye contact	Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.
Ingestion	Give two glasses of water for dilution; induce vomiting by sticking fingers down throat; never give anything by mouth to an unconscious person; seek medical attention.
(b) Most important symptoms/effects, acute and delayed	
Information for health personnel	Treat Symptomatically. Do not give victim anything to drink if he is unconscious.
(c) Indication of any immediate medical attention and special treatment needed	
Specific details on antidotes	No recommendation given.

5. FIRE-FIGHTING MEASURES

(a) Extinguishing media	Carbon dioxide, water fog, dry chemical, chemical foam. DO NOT use water jet.
(b) Specific hazards arising from the chemical	
Fire and explosion hazards	Closed containers can explode due to buildup of pressure when exposed to extreme heat. Vapors may cause a flash fire or ignite explosively. Vapors may travel a considerable distance to a source of ignition and flash back.
Hazardous combustion products	Fire creates: Smoke, fumes, oxides of carbon, i. e., Carbon monoxide (CO). Carbon dioxide (CO ₂).
(c) Special protective equipment and precautions for fire-fighters	Self - contained respiratory equipment; cool containers to prevent pressure buildup and explosion when exposed to extreme heat. Caution - material is flammable.

6. ACCIDENTAL RELEASE MEASURES

(a) Personal precautions, protective equipment and emergency procedures	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour.
(b) Environmental precautions	Avoid discharge into lakes, ponds, streams, or public waters.
(c) Methods and material for containment and cleaning.	Confine and absorb with sand, earth or other non-combustible material; place material into approved containers for disposal

7. HANDLING AND STORAGE

(a) Precautions for safe handling	Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures.
(b) Conditions for safe storage, including any incompatibilities.	CAUTION - FLAMMABLE - keeps away from all sources of ignition. "Empty" containers may contain residue, which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use non-sparking tools when opening and closing containers. Maintain well-ventilated work areas to minimize exposure when handling this material.

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8. EXPOSURE CONTROL/PERSONAL PROTECTION

(a) Control parameters		
Ingredient name	Exposure Limit	ACGIH (TLV)
Poly[2-(chloromethyl) oxirane-alt-propane-2,2-diyl]diphenol]	-	-
Xylene	50ppm	100ppm
Ethylbenzene	20ppm	20ppm
Solvent naphtha (petroleum), light aromatic	-	-
2-Propanol	200ppm	200ppm

(b) Appropriate engineering controls
A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended practices, most recent edition, for details. Use explosion-proof equipment.
(c) Individual protection measures
<p><u>Personal respirators</u> If the exposure limit is exceeded, a half-face organic vapor respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. Warning: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.</p>
<p><u>Skin protection</u> Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.</p>
<p><u>Eye protection</u> Maintain eye wash fountain and quick-drench facilities in work area. Use chemical safety goggles and/or full-face shield where dusting or splashing of solutions is possible.</p>
<p><u>Work/hygienic practices</u> Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.</p>

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Colour
Odour	: Solvent odour
Odour Threshold	: No Data
PH (value)	: No Data
Melting / Freezing Point	: Not Applicable
Boiling Point	: 82.0 - 181.0 deg C
Flash Point	: 32 deg C
Evaporation Rate	: No Data

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Flammability (Solid, Gas)	: Not Applicable
Explosion limits	: (lower limit) 0.8%, (upper limit) 12% (LEL, UEL)
Vapour Pressure	: 1500 Pa (20 deg C)
Density	: 1.23 - 1.33 g/ml
Solubility (ies)	: Not Applicable
Partition coefficient (n-octanol / water)	: Not Applicable
Auto-Ignition Temperature	: 425 deg C
Decomposition Temperature	: Not Applicable
Viscosity	: Not Applicable

10. STABILITY AND REACTIVITY

(a) Reactivity	Heating may cause a fire.
(b) Chemical stability	Product is stable under normal operating and storage conditions.
(c) Possibility of hazardous reactions	Not known
(d) Condition to avoid	Extreme temperatures, open flames, spark.
(e) Incompatible materials	Water, strong oxidizers, strong acids, strong alkalis.
(f) Hazardous decomposition products	Decomposition will not occur if handle and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

11. TOXICOLOGY INFORMATION

Harmful information on substance

<Poly[2-(chloromethyl) oxirane-alt-propane-2,2-diyl]diphenol>

Acute toxicity	: No data available
Skin corrosion/irritation	: Category 2
Serious eye damage/eye irritation	: Category 2B
Skin sensitizers	: Category 1

<Xylene>

Acute toxicity	LD50 (Dermal)	: 1700 mg/kg
	LC50 (Inhalation)	: 29.08 mg/l (4 hours)
Skin corrosion/irritation	: Category 2	
Serious eye damage/eye irritation	: Category 2	
Reproductive toxicity	: Category 1B	
Specific target organ toxicity (single exposure)	: Category 1 (respiratory organs, liver, central nervous system, kidney)	
Specific target organ toxicity (single exposure)	: Category 3 (anesthetic action)	
Specific target organ toxicity (repeated exposure)	: Category 1 (respiratory organs, nervous system)	
Aspiration hazards	: Category 1	

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<Ethylbenzene>

Acute toxicity	LD50 (Oral)	: 3500 mg/kg
	LC50 (Inhalation)	: 17.2 mg/l (4 hours)
Skin corrosion/irritation		: Category 2
Serious eye damage/eye irritation		: Category 2B
Carcinogenicity		: Category 2
Reproductive toxicity		: Category 1B
Specific target organ toxicity (single exposure)		: Category 2 (central nervous system)
Specific target organ toxicity (single exposure)		: Category 3 (respiratory tract irritation)
Aspiration hazards		: Category 1

<Solvent naphtha (petroleum), light aromatic>

Acute toxicity	LD50 (Oral)	: No data available
	LC50 (Inhalation)	: No data available
	LD50 (Dermal)	: No data available

<2-Propanol>

Acute toxicity	LC50 (Inhalation)	: 29510 ppm (4 hours)
Serious eye damage/eye irritation		: Category 2
Reproductive toxicity		: Category 2
Specific target organ toxicity (single exposure)		: Category 1 (central nervous system, systemic toxicity)
Specific target organ toxicity (single exposure)		: Category 3 (respiratory tract irritation)
Specific target organ toxicity (repeated exposure)		: Category 1 (blood)
Specific target organ toxicity (repeated exposure)		: Category 2 (respiratory organs, liver, spleen)

Harmful information on the product

The safety test is not done as the product.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Poly [2-(chloromethyl) oxirane- alt-propane-2,2-diylidiphenol]	Fish / LC50 / 2.4 mg/l / 96h Bacteria / EC50 / > 100 mg/l / 96h Daphnia Magna / EC50 / 3.6 mg/l / 24h
Xylene	Fish (Roccus Saxatilis) / LC50 / 2 mg/l / 96h Algae / IC50 / > 3.2 mg/l / 72h Daphnia / EC50 / 8.5 mg/l / 48h
Solvent naphtha (petroleum), light aromatic	Fish (Pimephales Promelas) / LC50 / 7.72 mg/l / 96h Algae / IC50 / < 1 mg/l / 72h Daphnia Magna / EC50 / 6.14 mg/l / 48h
2-Propanol	Fish (Pimephales Promelas) / LC50 / 9640 mg/l / 96h Algae / EC50 / 1800 mg/l / 72h Water Flea / EC50 / 5102 mg/l / 24h

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12.2 Persistence and Degradability

Poly [2-(chloromethyl) oxirane- alt-propane-2,2-diylidiphenol]	Biodegradation (5%) - 28 days Readily Biodegradable BOD : No Data / COD : No Data
Xylene	Biodegradation (88%) - 28 days Readily Biodegradable BOD : No Data / COD : No Data
Solvent naphtha (petroluem), light aromatic	Biodegradation (58%) - 28 days Readily Biodegradable BOD : No Data / COD : No Data
2-Propanol	Biodegradation (58%) - 5 days Readily Biodegradable BOD : 1.19 mg/g / COD : 2.23 mg/g

12.3 Bioaccumulative Potential

Poly [2-(chloromethyl) oxirane- alt-propane-2,2-diylidiphenol]	Log Pow : 3.242 / BCF: 31 Potential : Low
Xylene	Log Pow : 3.12 / BCF : 8.1 - 25.9 Potential : Low
Solvent naphtha (petroluem), light aromatic	Log Kow : 3.78 / BCF : 124.5 Potential : Low
2-Propanol	Log Pow : 0.05 / BCF : NA Potential : Low

12.4 Mobility in Soil

Poly [2-(chloromethyl) oxirane- alt-propane-2,2-diylidiphenol]	No Data Available
Xylene	It will be highly mobile and may contaminate ground water. Floats on water
Solvent naphtha (petroluem), light aromatic	The product is insoluble in water and will spread on the water surface
2-Propanol	The product is partly soluble in water. May spread in the aquatic environment

13. DISPOSAL CONSIDERATIONS

Waste treatment method	
Specify the appropriate methods of disposal	The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes

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14. TRANSPORT INFORMATION

(a) UN number	UN1263
(b) UN proper shipping name	Paint
(c) Transport Hazard Class(es)	UN Class 3 FLAMMABLE LIQUID
(d) Packing group, if applicable	III
(e) Environmental hazards (e.g. marine pollutant)	No
(f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	Not applicable
(g) Special precautions which a user needs to be aware of, or needs to comply with, in connection either within or outside their premises.	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the chemical			
This product is a "Hazardous Chemical" as it uses the ingredient classified as hazardous under the list of classified chemicals specified in Part 1 of the Industry Code of Practice on Chemicals Classification and Hazard Communication.			
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
HMIS III rating			
Health: 1	Flammability: 3	Physical hazard: 1	PPE: Safety glasses, gloves
Other label information		Not available	
Legislation and regulations		None of the component are listed under EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances of very high concern.	

16. OTHER INFORMATION

(a) SDS number	M-0035
(b) Date of preparation of the SDS;	07/07/2014
(c) Date of revision of the SDS	07/07/2024, version 0.00
(d) Date of previous issue	-
(e) Key literature references and sources for data used to compile the SDS	MSDS's and SDS for individual raw material, ICOP.
(f) Key/legend to the abbreviations and acronyms used in the SDS	
ATE = Acute Toxicity Estimate	BCF = Bio-concentration Factor
CAS number = Chemical Abstract Service registry number	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association	IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods	Log _{P_{ow}} = logarithm of the octanol/water partition coefficient
UN = United Nations	MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
F - Highly flammable	
T - Toxic	

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Xn - Harmful	PPM - parts per million (mg/kg)
Xi - Irritant	STEL - short-term exposure limits
TWA – time-weighted average	PEL - Permissible exposure limit
Niosh - National Institute for Occupational Safety and Health	ACGIH - American Conference of Governmental Industrial Hygienists
LD50 is defined as the lethal dose at which 50% of the population if killed in a given period of time;	REACH - Registration, Evaluation, Authorisation and restriction of Chemicals of the EU
LC50 is the lethal concentration required to kill 50% of the population.	29 CFR 1910.1200 – Hazard communication of the Occupational Safety and Health Standard
CFR - Code of Federal Regulations	EU – European Union
Flam. Liq. 3 - Flammable liquids category 3 Acute Tox. 4 (inh) - Acute toxicity category 4 inhalation Acute Tox. 4 (dermal) - Acute toxicity category 4 Skin Irrit. 2 - Skin corrosion or irritation category 2 STOT SE 3 - Specific target organ toxicity – single exposure category 3	H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness H332 Harmful if inhaled H312 Harmful if in contact with skin H315 Causes skin irritation
(g) Other information	None known
Disclaimer: This information is based on our present states knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for – a particular application.	

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