

MATERIAL SAFETY DATA SHEET

Name: 2K EPOXY POLYESTER ENAMEL
- 90° GS YELLOW INTERMIX
BASE

SECTION 1 - PRODUCT IDENTIFICATION & COMPANY INFORMATION

MSDS Number 551520
Product Name 2K EPOXY POLYESTER ENAMEL - 90° GS YELLOW INTERMIX
BASE
Trade Mark CHEMISOLID
Company identification SICO INC.
2505 De la Metropole
Longueuil QC J4G 1E5
CANADA
Contact Service au client/Customer Service/Servicio con cliente
Telephone 450 442-7999 (8:00-17:00)
Fax number 450 646-7699
Prepared by Regulatory Department
Regulatory telephone (514) 495-5710 (8:00-17:00)
Emergency contact CANUTEC
Emergency telephone 613 996-6666 (24H)
Type of product SOLVENT-BASED EPOXY COATING

SECTION 2 - COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name	CAS #	Concentration (w/w)
EPOXIDIZED LINSEED OIL	8016-11-3	30-60%
METHYL n-AMYL KETONE	110-43-0	10-30%
BENZIMIDAZOLONE (pig yellow 151)	61036-28-0	10-30%
ZINC OXIDE (as ZINC COMPOUND)	1314-13-2	1-5%
CALCIUM METASILICATE	13983-17-0	1-5%
ETHYL 3-ETHOXYPROPIONATE	763-69-9	1-5%
PROPYLENE GLYCOL METHYL ETHER ACETATE	108-65-6	1-5%
PROPYLENE GLYCOL n-BUTYL ETHER	5131-66-8	1-5%
ETHYLENE GLYCOL BUTYL ETHER	111-76-2	1-5%

SECTION 3 - HAZARDS IDENTIFICATION

MATERIAL SAFETY DATA SHEET

Name: 2K EPOXY POLYESTER ENAMEL
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BASE

EYE CONTACT

The material is slightly irritating.
The effects are usually reversible.

SKIN CONTACT

The material is moderately irritating. Repeated or prolonged contact increases the irritation.

INHALATION HAZARDS

Moderately irritating for the nose, throat, upper respiratory track and lungs.
An exposure to the vapors of spray mist can give headaches, affect the central nervous system and cause dizziness, nausea and narcotic effects.

INGESTION HAZARDS

Do not swallow.
May cause respiratory problems.
May cause nausea, vomiting, diarrhea, gastro-intestinal irritation and ulceration.
May cause burns to the mouth, throat and oesophagus.
An aspiration of the vomits into the lungs may cause inflammation (chemical pneumotitis, bronchopneumonia or pulmonary oedema).

TARGET ORGANS

Central nervous system.
Liver.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT

Immediately flush eyes with lukewarm water for at least 15 minutes, holding the eyelids opened.

MATERIAL SAFETY DATA SHEET

Name: 2K EPOXY POLYESTER ENAMEL
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BASE

SKIN CONTACT

Wash the skin thoroughly with plenty of lukewarm water using a mild and non-abrasive soap.

Do not use cold water; it enhances the irritation by closing the skin pores.

Remove contaminated clothes and wash them before reuse.

If the irritation persists, repeat the washing procedure.

INHALATION

Remove the victim to fresh air.

If breathing has stopped, give artificial respiration.

If breathing is difficult, oxygen should be administered.

INGESTION

Never give anything by mouth if the victim is semi, unconscious or convulsing.

Do not induce vomiting unless directed to do so by medical personnel.

Dilute by giving 2 glasses of water or milk.

Have the victim lean forward to reduce the risk of aspiration of the vomits into the lungs.

Keep the victim warm and quiet.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point: 48.9 °C (120 °F) Tag Closed Cup

Lower flam. limit (%): 1

Upper flammable limit (%): 13.8

Auto Ignition Point: 393 °C (739.4 °F)

FLAMMABLE PROPERTIES

Closed containers of this material may build up pressure if exposed to intense heat and may explode. .

Vapors may form, with air, an explosive mixture between lower and upper flammable limits.

MATERIAL SAFETY DATA SHEET

Name: 2K EPOXY POLYESTER ENAMEL
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BASE

HAZARDOUS COMBUSTION PRODUCTS

Carbon monoxide
Carbon dioxide
Aldehydes
Inorganics acids
Other unidentified compounds.

EXTINGUISHING MEDIA

Fine spray or drizzle of water.
CAUTION: Water in a jet may disperse fire.
Chemical foam
Carbon dioxide (CO₂)
Dry chemical

FIRE FIGHTING INSTRUCTIONS

Evacuate all persons from the fire area to a safe location. If fire is small, uses an extinguisher and ensures you an exit. If fire grows bigger quickly, leave immediately.
Wear a self-sufficient breathing apparatus.
Wear protective clothes.
When the fire is under control, use fine spray or drizzle of water only to cool down the containers.
Treat as a highly flammable liquid.
Closed containers may explode when exposed to an extreme heat.

SECTION 6 - MEASURES FOR ACCIDENTAL SPILL OR RELEASE

CONTAINMENT

This material is a water-pollutant and soil contaminant.
Prevent this product or the wash waters from entering the water system or sewers.

CLEAN-UP

MATERIAL SAFETY DATA SHEET

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- 90° GS YELLOW INTERMIX
BASE

Remove all sources of ignition.

Ventilate the area.

Wear a self-contained breathing apparatus.

Absorb the spill by using an inert material (sand, earth, vermiculite).

Transfer the absorbed material into a waste container.

Handle as a highly flammable liquid.

Flush the area with plenty of water.

REPORTING

For Canadian, report to the applicable Provincial Environment Ministry.

US regulations require reporting spills of this material that could reach any surface waters.

EVACUATION

Evacuate all personnel not related to emergency procedures.

SECTION 7 - HANDLING AND STORAGE

HANDLING

Avoid repeated or prolonged contact with the skin.

Always ground the containers when transferring.

Avoid breathing the vapors or spray mist.

Avoid contact with eyes.

STORAGE

Keep the storage area clean, separated from crowded areas and cafeterias.

Keep away from direct sunlight, high heat, incompatible materials and sources of ignition.

Keep the containers tightly closed.

This material is highly volatile and flammable.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL SAFETY DATA SHEET

Name: 2K EPOXY POLYESTER ENAMEL
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BASE

CAS #	Authority	Type	Dose
110-43-0	ACGIH	TLV	50 PPM
	OSHA	PEL	100 PPM
1314-13-2	ACGIH	STEL	10 mg/M3
	ACGIH	TLV	5 mg/M3
	OSHA	PEL	5 mg/M3
	OSHA	STEL	10 mg/M3
13983-17-0	ACGIH	TLV	3 mg/M3
763-69-9	ACGIH	TLV	50 PPM
	OSHA	PEL	50 PPM
108-65-6	ACGIH	TLV	100 PPM
111-76-2	ACGIH	TLV	25 PPM
	OSHA	PEL	25 PPM

ENGINEERING CONTROLS

Provide sufficient ventilation to maintain the exposure levels below the limits.
Use local exhaust ventilation systems.
The exhaust air should be filtered to protect the environment.
The equipment must be corrosive resistant.
The equipment and the containers must be grounded at all times to prevent static charge build up.
Eye bath and safety showers must be available wherever this material is used.
Keep away from food, drinks and tobacco.

RESPIRATORS

Avoid breathing vapors or spray mist.
Use a NIOSH approved air-induced respirator when the exposure levels are exceeded.
A NIOSH approved air-purifying respirator with the appropriate chemical cartridge may also reduce exposure, however protection provided by air purifying respirators is limited. Determine the proper level of protection by conducting appropriate air-monitoring.
For a short period of use, wear a charcoal filter canister mask with a particle

MATERIAL SAFETY DATA SHEET

Name: 2K EPOXY POLYESTER ENAMEL
- 90° GS YELLOW INTERMIX
BASE

filter.

OTHER CLOTHING

Wear protective clothes: overall with long sleeves, chemical-resistant gloves, apron and impervious boots (neoprene or butyl rubber).

Wear chemical-resistant anti-splashes safety goggles with side pieces or chemical-resistant faceshield.

DO NOT WEAR contact lenses when working with paints and paint related materials..

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid.
Color:	Colored.
Odor:	Solvents.
Odor threshold (ppm):	Not available
Partition coef. oil/ water:	Not available
pH:	Not applicable
Freezing Point:	-35.5 °C (-31.9 °F)
Boiling temperature:	151.5 °C (304.7 °F)
Evaporation rate:	Slower than n-Butyl Acetate
Vapor pressure at 20°C:	50 mm Hg < vapour pressure < 100 mm Hg
Vapor Density:	Heavier than air
Volatiles by weight (%):	29.44
Volatiles by Volume (%):	38.02
Specific gravity (kg/L):	1.081
Weight per US gal. (lbs/gal.):	9
Coating VOC (g/L):	318.3
Coating VOC (lbs/gal US):	2.65
% HAPS by weight:	0
% VHAPS by weight:	0

SECTION 10 - STABILITY AND REACTIVITY

MATERIAL SAFETY DATA SHEET

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BASE

CONDITIONS TO AVOID

Sparks
Flame
High heat

SENSIBILITY TO STATIC DISCHARGE

Yes

SENSITIVITY TO MECANICAL SHOCK

Yes

INCOMPATIBILITY WITH OTHER MATERIALS

Acid
Strong oxidizing material

HAZARDOUS DECOMPOSITION PRODUCTS

Not available

SECTION 11 - TOXICOLOGICAL INFORMATION

CAS #	Exposure Route	Species	Dose
110-43-0	LD50 Oral	Rat, adult	1670 mg/kg
	LD50 Skin	Rabbit, adult	12600 mg/kg
	LC50 Inhalation	Rat, adult	2000 PPM
	LCLo Inhalation	Rat, adult	4000 PPM
61036-28-0	LD50 Oral	Rat, adult	2000 mg/M3
1314-13-2	LD50 Oral	Mouse	7950 mg/kg
	LDLo Oral	Human	500 mg/kg
	TDLo Oral	Rat, adult	6846 mg/kg
	TCLo Inhalation	Human	600 mg/M3
763-69-9	LD50 Oral	Rat, adult	5000 PPM
	LD50 Subcutaneous	Rabbit, adult	10000 PPM
108-65-6	LD50 Oral	Rat, adult	8500 mg/kg

MATERIAL SAFETY DATA SHEET

Name: 2K EPOXY POLYESTER ENAMEL
- 90° GS YELLOW INTERMIX
BASE

	LD50	Skin	Rabbit, adult	5000 mg/kg
	LC50	Inhalation	Rat, adult	5322 mg/M3
5131-66-8	LD50	Skin	Rabbit, adult	3100 mg/kg
	LD50	Oral	Rat, adult	2200 mg/kg
111-76-2	LD50	Oral	Rat, adult	470 mg/kg
	LD50	Skin	Rabbit, adult	220 mg/kg
	LDLo	Subcutaneous	Rat, adult	500 mg/kg
	TDLo	Oral	Woman	600 mg/kg
	LC50	Inhalation	Rat, adult	2175 mg/M3
	TCLo	Inhalation	Human	100 PPM

CARCINOGENICS EFFECTS

No recorded data was found.

MUTAGENIC EFFECTS

No recorded data was found.

TERATOGENIC EFFECTS

No recorded data was found.

DEVELOPMENTAL EFFECTS

No recorded data was found.

CHRONIC EFFECTS

No recorded data was found.

SECTION 12 - ECOLOGICAL INFORMATION

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable Federal, Provincial, state and municipal regulations.

MATERIAL SAFETY DATA SHEET

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- 90° GS YELLOW INTERMIX
BASE

SECTION 14 - TRANSPORT INFORMATION

TDG UN Number 1263
TDG Class 3
TDG Packing group III
IMDG UN Number 1263
IATA UN Number 1263
Shipping name PAINTS

Note: For containers of 5 Litres or less, EXEMPTED from Transport of Dangerous Goods by road according to exemption of article 1.17 (Limited Quantity).

SECTION 15 - REGULATORY INFORMATION

HMIS Health Code 2 - Moderate Hazard
HMIS Fire Code 2 - Moderate Hazard
HMIS Reactivity Code 1 - Slight Hazard
HMIS Personal Protection H: splash goggles, gloves, synthetic apron and a vapor respirator.

WHMIS CLASS

D2B - Toxic materials causing other toxic effects
D2A - Very toxic materials causing other toxic effects
B3 - Combustible liquids

WHMIS FORMAT

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of 16 headings instead of 9.

SECTION 16 - OTHER INFORMATION

The manufacturer hereby declares that the information disclosed herein have been based on our raw material suppliers' data, information and notification. Such raw materials are being used as components in the manufacturing of the product. The manufacturer has no control over the nature and content of such information. The manufacturer fully reproduces all the information it holds on the constituent of the

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