



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

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TRADE NAME SYNTEKO 1242	Chemical abstract no.	Mixture
Chemical family Formaldehyde resin	NIOSH no.	Unknown
Chemical name Melamine-urea-formaldehyde resin	Hazchem code	None
Synonyms None	UN no.	None

2. COMPOSITION / INFORMATION OF INGREDIENTS

Ingredient	CAS No.	Approx. (%)	Hazard Classification & Risk Phrases	EEC No.
Ethanediol	107-21-1	<5	Xn, R22	203-473-3
Methanol	67-56-1	<5	F, R11, T, R23/24/25. R39/23/24/25	200-659-6
Formaldehyde	50-00-0	<2	Carc, Cat.3, R40, R23/24/25, C, R34, R43	200-001-8

3. HAZARDS IDENTIFICATION

Classification	R43
Main hazard:	May cause sensitisation by skin contact.
Additional hazards	The product contains small amounts of unreacted formaldehyde, which may be given off by curing. Formaldehyde vapour may be irritating to respiratory tract

4. FIRST-AID MEASURES

Product in eyes	Remove any contact lenses from the eyes before rinsing thoroughly with plenty of water (lift eye lids). Rinse for at least 15 minutes. Seek medical attention if any discomfort continues
Product on skin	Wash skin with soap and water – do not use solvents! Seek medical attention if irritation persists
Product ingested	Never make an unconscious person vomit or drink fluids. Get the affected person to drink a lot of water in small gulps. Do not induce vomiting. Seek medical attention if discomfort continues
Product inhaled	Move person to fresh air. Seek medical attention if irritation occurs

5. FIRE-FIGHTING MEASURES

Extinguishing media	Water, dry chemical powder, foam, carbon dioxide or sand
Special hazards	In case of fire, hazardous combustion-gases are formed – CO. Under certain conditions of combustion traces of other toxic substances cannot be excluded
Protective clothing	In case of fire, wear respiratory protection

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Surface may be slippery. Evacuate area. Do not breathe vapours/mist. Wear PPE and respirator. Provide adequate ventilation
Environmental precautions	Avoid contamination of ground and water surfaces
Small spills	If recovery is not feasible, absorb with dry sand, soil or non-reactive absorbent material or coagulate by sprinkling sodium chloride over the spill. If product has dried, scrape off the ground. Place in a container suitable for disposal
Large spills	Stop leak if without risk. Ventilate area. Prevent entry into drains or sewers. Clean as per small spills

7. HANDLING AND STORAGE

Suitable material	Steel container lined with polyethylene or polypropylene, polyethylene, PVC containers
Storage precautions	Keep product in a sealed container at temperatures between 5 and 30°C. Minimize contact with atmosphere to prevent contamination with micro-organisms

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limits

Name	TWA - 8 hrs	STEL - 15 min
Ethanediol	20ppm	40ppm
Methanol	200ppm	-
*Formaldehyde	0.3ppm	-

*Substance identified by sources as a suspected or confirmed human carcinogen

Engineering controls	Provide good ventilation when handling large quantities. No special measures are required if stored and handled as above
Respiratory Protection	Not required under normal conditions of use in a well-ventilated space otherwise use a respirator
Hand Protection	Neoprene, PVC, Nitrile gloves should be used if there is a risk of direct contact onto skin
Eye Protection	Safety glasses
Skin Protection	Observe the usual precautions when handling chemicals. Remove soiled or soaked clothing immediately
Other Protection	Wash hands at the end of each work shift and before eating

9. PHYSICAL PROPERTIES

- Appearance White opaque viscous liquid
- Odour Mild odour
- pH Approx 10
- Flash Point >100°C (Closed Cup)
- Density (g/cm³ @ 20°C) Approx 1.3
- Solubility water Miscible

10. STABILITY AND REACTIVITY

Conditions to avoid	Exposed air will form dry polymer skins. Avoid temperature extremes: <5°C and above 30°C
Incompatible materials	Organic solvents, strong acids, strong alkalis, salts
Hazardous decomposition products	None expected under normal conditions of use

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Ethane-1, 2-diol	LD50	Oral	Rat	42700 mg/kg
	Methanol	LD50	Oral	Rat	5600 mg/kg
	Formaldehyde	LD50	Oral	Rat	100 mg/kg
Chronic effects	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels				
Target organs	Contains material which may cause damage to the following organs: gastrointestinal tract, upper respiratory tract, central nervous system, eye, lens or cornea				

12. ECOLOGICAL INFORMATION

Ingredient	Result	Species	Exposure
Ethane-1,2-diol	Acute LC50 8050000 ug/L Fresh water	Fish-Fathead minnow-Pimephales promelas <=7 days	96 hours
Methanol	Acute EC50 12700000 to 13700000ug/L Fresh water	Fish-Bluegill-Lepomis macrochinus- Juvenile -3.07g	96 hours
	Acute LC50 3289 to 4395mg/L Fresh water	Daphnia-waterflea-daphnia magna- Neonate <24 hours	48 hours
Formaldehyde	Acute EC50 5800 to 7800ug/L Fresh water	Daphnia-water flea-daphnia pulex- neonate <24 hours	48 hours
	Acute LC50 1.41ppm Fresh water	Fish-Rainbow trout-donaldson trout- Oncorhynchus mykiss	96 hours

13. DISPOSABLE CONSIDERATIONS

Disposal methods	Whatever cannot be saved for recovery/recycling should be handled according to current local waste disposal legislation. Do not allow to enter drains or sewers. Do not allow to enter any body of water
Disposal of packaging	Contaminated packaging should be emptied as far as possible and after appropriate cleaning may be taken for reuse or disposed of in approved facility in accordance with current local legislation

14. TRANSPORT REGULATIONS

UN no		Not regulated
Substance identity no.		Not regulated
Road / rail transport	ADR / RID	Not regulated
Marine Transport	IMDG	Not regulated
Inland waterways	ADNR	Not regulated
Air transport	IATA	Not regulated

15. REGULATORY INFORMATION

EEC hazard classification	Not determined
Risk phrases	R43 – May cause sensitisation by skin contact
Safety phrases	S24 (avoid contact with skin), S37 (wear suitable gloves)
National legislation	n/a

16. OTHER INFORMATION

For intended use and applications see the Technical Data Sheet for the product. The information provided in this Material Safety Data Sheet is based on the present state of our knowledge. This data is intended to enable safety assessments to be made and should not be construed as guaranteeing specific properties. Recipients of our product must take responsibility for observing existing laws and regulations

Risk Phrases	R11	Highly flammable.
	R40	Limited evidence of a carcinogenic effect
	R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
	R39/23/24/25	Toxic. Danger of very serious irreversible effects through inhalation
	R22	Harmful if swallowed
	R34	Causes burns
	R43	May cause sensitisation by skin contact
Classifications	F	Highly flammable
	Carc. Cat 3	Carcinogen, Category 3
	T	Toxic
	C	Corrosive
	Xn	Harmful