



MATERIAL SAFETY DATA SEET

1. Chemical Product & Company Identification

Product Name : ACRYLIC URETHANE TOP COAT COLOR
Code : GHDF-1580-00 / HAD-6227
Chemical Description : This is 2 component acrylic urethane top coat color based on acrylic resin, polyisocyanate.

Supplier : PT. GYUNG DO INDONESIA
Ngoro Industri Persada Blok H-03A,
Ngoro Mojokerto 61385, Indonesia

Emergency Contact : Tel. +62 321 6819444, 6819445
Fax. +62 321 6819446

2. Composition / Information On Ingredients

<u>Name</u>	<u>Cas No.</u>	<u>%</u>
Acrylic resin	None	45~55
polyisocyanate	None	5~15
Xylene	1330-20-7	5~15
Toluene	108-88-3	0~10
Titanium dioxide	13463-67-7	20~30
Cellosolve acetate	111-15-9	0~10

3. Hazards Identification

NAFPA Rating Health: 1 Fire: 0 Reactivity: 0

This product may cause eye and skin irritation and at high temperature, respiratory irritation.

- Inhalation: Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat, lungs.
- Eye contact: Direct contact with material can cause slight irritation.
- Skin contact: Prolonged or repeated skin contact can cause slight skin irritation.
- Swallowed: Harmful. It can cause lung damage.

4. First Aid Measures

- Inhalation: Remove immediately to fresh air, avoid exertion.

- Eye contact: Flush eyes with plenty of water for at least 15 minutes. Get medical aid.
- Skin contact: Wash immediately with plenty of water and soap. Get medical aid if irritation.
- Ingestion: Drink at least 2~3 glasses of water or drink. Get medical aid.

5. Fire Fighting Measures

- Special risk: Non-Flammable
- Extinguishing media: Use extinguishing media (carbon dioxide, water spray, regular foam) appropriate for surrounding fire.
- Protective equipment: Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

6. Accidental Release Measures

- Personal precautions: Avoid breathing of vapors and mist. Do not ingest.
- Environmental precautions: Do not allow material to enter sewers, the soil and surface water.
- Cleaning procedures: Sweep up or absorb material, put it into a container for disposal.

7. Handling & Storage

- Handling: Apply proper ventilation, possibly combined with a local exhaust. Do not eat, smoke, or drink during use.
- Storage: Keep away from heat and flame. Store in a cool, dry place. Keep containers tightly closed.

8. Exposure Controls / Personal Protection

Engineering measures

No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protection

- Eye: Use chemical splash-proof safety goggles or other approved eye protection.
- Skin: Impervious gloves. Impervious clothing to prevent skin contact.
- Respiration: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

9. Physical & Chemical Properties

Appearance	: Viscous white liquid
Solid (% wt)	: 62±1
Density (gr/cm ³)	: 1.2~1.3
PH	: -
Flash point (°C) *	: About 25
VOC (gr/lit)	: 470

* Drived from the solvent.

10. Stability & Reactivity

Stable under recommended storage and handling conditions.

11. Toxicological Information

No experimental data of the product available.

Respiratory exposure to the vapors may lead to coughing, dizziness, sickness, and vomiting.

Long term exposure may lead to effects of the central nervous system.

Frequent or continuous skin contact may lead to irritation and dermatitis.

12. Ecological Information

No Experimental data of the product available

13. Disposal Consideration

Waste disposal in accordance with local regulations.

Contaminated container may be reused after cleaning.

14. Transport Information

General : Flammable liquid

UN No. : 1263

Class : 3

Packing class : III

Marking



15. Other Information

NAFPA Rating

Health: 4-Danger, 3-Warning, 2-Warning, 1-Caution, 0-No unusual hazard

Flammability: 4-Danger, 3-Warning, 2-Caution, 1-Combustible if heated, 0-Not combustible

Reactivity: 4-Danger, 3-Danger, 2-Warning, 1-Caution, 0-Stable