



Safety Data Sheet


Rev. 5

Page 1 of 7

Section 1 - Product and Company Identification

Product name : SDN-64
Other names : STRIPPER
Product use : dissolve photoresist
Supplier's name : San Fu Chemical Co., Ltd.
Supplier's address : 1,Sec.1,Huanyuan E..Rd.,Liuying Dist.,Tainan, Taiwan 736.
Supplier's phone : 886-6-6231821 Emergency phone : 886-6-6231821
FAX. : 886-6-6231822

Section 2 - Hazards Identification

Classification :
1. Flammable liquids Category 4
2. Skin corrosion / irritation Category 3
3. Specific target organ system toxicity~single exposure Category 3
4. Serious eye Damage/eye irritation Category 2B
The Most Important Hazards and effect
Label element :
■ Hazard symbol : Exclamation Mark

■ Signal word : Warning
Hazard statement :
1. Flammable liquids and vapor
2. May cause moderate skin irritation
3. May cause respiratory tract irritation
4. May cause eye irritation
Precautionary statement :
1. Avoid contact with eyes.
2. Avoid contact with skin.
3. In case of contact with eyes, flush with plenty of water, call doctor immediately.
4. If swallowed, seek medical attention immediately and show this container or
Others Hazard : /

Section 3 – Composition /Information On Ingredients

Mixture :

Component or impurities contributing to the hazard	Concentration or concentration range (%)	CAS No.
Dimethyl sulfoxide	50 ~ 80%	67-68-5
N-Methylpyrrolidinone	25 ~ 60%	872-50-4



Safety Data Sheet

Rev. 5

Page 2 of 7

Additives	≤5%	---
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Section 4 - First Aid Measures

The First-aid Information :

- Inhalation : Move exposed person to fresh air. Keep person warm and at rest. If not breathing, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Call physician immediately.
- Skin Contact : Use warm water to gently wash contaminated places for at least 20 minutes immediately. Remove contaminated clothes, shoes, and leather products. Thoroughly clean contaminated clothes before reuse. Do not reuse contained shoes and leather products. Get medical attention immediately.
- Eye Contact : Immediately flush eyes with plenty of water for at least 30 minutes, lifting lower and upper eyelids occasionally. Try to not contaminate unaffected area. Get medical attention immediately.
- Ingestion : Do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately. May cause irritation to skin, eyes, and respiratory tract.

Protection of First-aiders : Wear Class C protective gears and do first aid in a safe zone.

Notes to a Physician : --

Section 5 - Fire Fighting Measures

Extinguishing Media : Water spray, dry chemical powder, foam, or carbon dioxide.

1. Small fire: Use dry chemical powder, appropriate foam, or water spray. DO NOT use water jet.
2. Large fire: Use water spray or appropriate foam.

Specific Hazards when Fire-fight :

1. Moderate fire hazard when exposed to heat or flame.
2. Vapor can flow along surfaces to distant ignition source and flash back.
3. Above the flash point, vapor-air mixtures are explosive with flammable limits.

Specific Fire-fighting Procedure :

1. If safe to do so, move undamaged containers from the fire area.
2. Cool tanks or containers with flooding quantities of water until fire is out.
3. Stay away from the ends of tanks.
4. For fires in cargo or storage area, cool containers with water from unmanned hose holder or monitor nozzles until fire is out. If this is impossible then take the following precautions: keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn.
5. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.
6. For tank, rail car, or tank truck: evacuation radius 800 meters (1/2 mile).
7. Let the fire burn unless leak can be stopped immediately.
8. Reduce vapors with water spray. Do not use high-pressure steam pressure on spills.
9. Fight fire from protected location or safe distance.
10. Do not inhale chemical or fumes.
11. Approach fire from upwind. Stay away from the low or confined areas.



Safety Data Sheet

Rev. 5

Page 3 of 7

Specific Protection of Firefighters :

1. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH and full protective gear
2. If necessary, may cover a spark-proof coat on the protective clothing.

Section 6 - Accidental Release Measures

Personal Precautions :

1. Do not inhale vapor or mist.
2. Restrict access to area until completion of clean up.
3. Ensure clean up is inducted by trained personnel only.
4. Wear proper personal protective gears.

Environmental Precautions :

1. Well-ventilated the contaminated area.
2. Remove all sources of ignition.

Methods for Cleaning up :

1. Under a safe condition, try to stop or reduce the leakage.
2. Reduce vapor with water spray.
3. Small spills/leaks: Absorb spill with sand or other inert material, and then place in suitable containers for disposal. Remove all sources of ignition. Provide ventilation.
4. Large spills/leaks: Dike spills for disposal.

Section 7 - Handling and Storage

Handling :

1. Avoid contact with personnel.
2. Do not breathe vapor or mist.
3. Use an appropriate respirator if expose to hazard.
4. Store in a cool, well-ventilated area.
5. Do not enter confined area unless the air quality has been checked.
6. Avoid smoking, naked lights, or ignition sources.
7. Stay away from incompatible materials.
8. Never eat, drink, or smoke in work areas.
9. Keep containers tightly closed when not in use.
10. Protect containers against physical damage.
11. Wash thoroughly with soap and water after handling.
12. Launder contaminated clothing separate from other household laundry.
13. Practice good personal hygiene after using this material.
14. Check air quality regularly to ensure the safety in work environment.

Storage :

1. Make sure all containers are labeled clearly.
2. Store in glass, metal, or multi-layer lined containers.
3. Avoid contact with oxidizers and incompatible materials.
4. Store in original containers.
5. Keep containers tightly closed.
6. Avoid smoking, naked lights, heat, or ignitions sources in work area.
7. Store in a cool, dry, and well-ventilated area.
8. Stay away from incompatible materials and food area.
9. Protect containers against physical damage, check regularly for spill and leak.



Safety Data Sheet

Rev. 5

Page 4 of 7

10. Store protected from moisture.

Section 8 - Exposure Controls & Personal Protection

Engineering measures :

1. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
2. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Control parameters			
TWA	STEL	Ceiling	Biological standards
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- Personal protective equipment :
 1. Respiratory protection : The following respirators are recommended based on information found in the physical data, toxicity and health effects sections. They are ranked in order from minimum to maximum respiratory protection. The specific respirator selected must be based on contamination levels found in the work place, must be based on the specific operation, must not exceed the working limits of the respirator and must be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).
 2. Any type 'C' supplied-air respirator with a full face-piece operated in pressure-demand or other positive pressure mode or with a full face-piece, helmet or hood operated in continuous-flow mode.
 3. Any self-contained breathing apparatus with a full face-piece operated in pressure-demand or other positive pressure mode.
- Hand Protection : Wear appropriate chemical protective gloves.
- Eye Protection : Wear splash-proof safety goggles. An emergency eye wash station should be provided whenever the possibility exists for eye exposure to this substance.
- Skin and Body Protection : Wear proper protective clothing and equipments.

Hygiene measures :

1. Change contaminated clothing. Dispose or reuse after cleaning thoroughly. Must advise the danger to the laundry worker.
2. Eating or smoking is prohibited.
3. Wash hands thoroughly after working with the substance.
4. Maintain the cleanness of the workplace.

Section 9 - Physical & Chemical Properties

Appearance : liquid	Odor : Corn -like odor
Colour : Colorless to pale yellow	Melting Point: --
pH value : --	Boiling point/boiling range : 180~200°C
Flammability: --	Flash point : 89°C
Decomposition temp : > 189°C	Test method : close



Safety Data Sheet

Rev. 2

Page 5 of 7

Autoignition temp : 215°C	Explosion properties : --
Vapor pressure : 0.4 mmHg@20°C	Vapor density : >1 (air = 1)
Density : 0.98 ± 0.05	Solubility : Soluble in cold water, ether, acetone
log Kow : --	Evaporation Rate : --

Section 10 - Stability & Reactivity Data

Stability : Stable under normal temperature and pressure
Possible hazardous reactions under specific conditions :
Conditions to avoid : air, heat, sparks, open flame, other sources of ignition. Under normal steady, but will absorb moisture in the air, the reaction with carbon dioxide salts. Under light irradiation will decompose slowly oxidized in air, turn yellow, turn brown after this reaction due to the presence of heat and metal acceleration.
Materials to avoid : alkali metal 、peroxide 、nitrate 、halogens or halide 、perchloric acid 、chlorate 、nonmetallic oxyhalides 、NO _x 、SO _x 、Strong oxidant.
Hazardous decomposition products : Thermal decomposition products may include formaldehyde, methyl mercaptan, and sulfur dioxide vapors.

Section 11 - Toxicological Information

Route of exposure : Skin, inhalation, ingestion, eyes
Symptoms : Coughing, headache, Dizziness, mental disorder, nausea, skin irritation, eye irritation burning feel of the eye, pain on eye and eye lid, tearing, inflammation of the conjunctivae, Transient Corneal blurring, gastrointestinal tract irritation.
Immediate Toxicity : <ol style="list-style-type: none">1. Skin :<ol style="list-style-type: none">1.1 Cause mild irritation while contacting.1.2 May be absorbed to the invivo from skin.2. Inhalation :<ol style="list-style-type: none">2.1 Exposure to very high concentrations may cause coughing, headache, dizziness, mental disorder, nausea.3. Eye :<ol style="list-style-type: none">3.1 Exposure with vapor may cause irritation.3.2 Direct contact may cause burning pain, eye and eyelid irritation tearing, inflammation of the conjunctivae, transient corneal blurring, gastrointestinal inappropriate.4. Ingestion :<ol style="list-style-type: none">4.1 Causes gastrointestinal tract irritation.<ul style="list-style-type: none">● LD50: 9780mg/kg (rat, oral)● LD50: 20mg/kg (rat, oral)



Safety Data Sheet

Rev. 2

Page 6 of 7

Specific effects :

1. Long term exposure to very high concentrations may cause Coughing, headache, Dizziness, mental disorder, nausea.
2. From the studies, expose to very high concentrations cause embryonic toxicity of the big mouse and small mouse.

Section 12 - Ecological Information

Ecotoxicology :

- LC₅₀(fish) : --
- EC₅₀(Aquatic Invertebrates) : --
- Bioconcentration factor (BCF) : --

Persistence and degradability :

- Half-Life (Air) : --
- Half-Life (Water surface) : --
- Half-Life (Groundwater) : --
- Half-Life (Soil) : --

Bioaccumulative potential : --

Mobility in soil : --

Other adverse effects : --

Section 13 - Disposal Considerations

Methods of disposal :

The most favorable course of action is to use an alternative chemical product with less inherent propensity for occupational exposure or environmental contamination. Recycle any unused portion of the material for its approved use or return it to the manufacturer or supplier. Ultimate disposal of the chemical must consider: the material's impact on air quality; potential migration in soil or water; effects on animal, aquatic, and plant life; and conformance with environmental and public health regulations.

Section 14 - SDS Transport Information

UN classification number : 2810

Proper D.O.T Shipping Name: Hazardous liquids, while not specifically stating

Hazard Class: --

Packing Group : --

Marine pollution : --

Specific precautionary transport measures and conditions : --

Section 15 - Regulatory Information

Regulations :

1. Occupational Safety and Health Act
2. Regulations for the Labelling and Hazard Communication of Hazardous Chemicals
3. Road Traffic Safety Regulations
4. Industrial Waste Storage and Disposal Regulations



Safety Data Sheet

Rev. 2

Page 7 of 7

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| 5. Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations. |
| 6. Assessment and Classification Administration of Hazardous Chemicals |

Section 16 - Other Information

Literature references	1. GHS Reference Exchange and Tool (G.R.E.A.T.) Website – a Standard Element Clearinghouse	
	2. Raw material supplier SDS	
Prepared by	Supplier : San Fu Chemical Co., Ltd. Shan Hua Plant	
	Address : 1,Sec.1,Huanyuan E..Rd.,Liuying Dist.,Tainan, Taiwan 736.	
	TEL : 886-6-6231821	FAX : 886-6-6231822
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Issue date	Jun-4th 2025	Revision : 5
Re-revision date	Jun-3rd 2028	
Remarks	Symbols Explanations: “-” No information is available at this time. “/” Not applicable to this substance.	
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