Material Safety Data Sheet

Section 1 – Chemcial Product and Company Information

Chemical Name	・2-Diazo-1-naphthol-5-sulfonylchloride ・1,2-naphthoquinone-2-diazide-5-sulfonyl chloride
Chemical Formula	$C_{10}H_5ClN_2O_3S$
Company Identification	Showa Kako Corporation
	18-23 Yoshino-cho, Suita City Osaka pref., 564-0054 JAPAN
Telephone Number	+81-6-6384-1501
24-hour Emergency Telephone Number	+81-6-6384-1501
Fax Number	+81-6-6384-2287

Section 2 – Hazards Information

The most important hazard	Self-reactive
GHS Classification	
Physical Hazards	
Self-reactive substances and mixtures	Category B
Health Hazards	
Skin corrosion / irritation	Category 1
Serious eye damage / eye irritation□	Category 1
Environmental Hazards	Not classified
GHS Symbol	

Section 3 – Composition and Information on Ingredients

Chemical Name	・2-Diazo-1-naphthol-5-sulfonylchloride ・1,2-naphthoquinone-2-diazide-5-sulfonyl chloride
CAS #	3770-97-6
UN #	3222
Percent	98.0% min.

Section 4 – First Aid Measures

Eyes	Immediately flush eyes with copious amounts of water for at least 15 minutes,occasionally lifting the upper and lower eyelids. Consult with ophthalmologist.
Skin	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Consult with a physician if symptoms occur.
Ingestion	Immediately wash mouth with plenty of water and give 1 – 2 cupfuls of milk or water if victim is conscious and alert. Consult with a physician.

Inhalation	Remove to fresh air, wash out nasal aperture and mouth with plenty of water. If breathing is difficult, give artificial respiration. If not breathing, give oxygen. Consult with a physician.

Section 5 – Fire Fighting Measures

Flash Point		No data found
Autoignition		No data found
Explosion Limits	**Lower**	No data found
	Upper	No data found
Extinguishing Media		Water, powder, carbon dioxide, foam
Fire Fighting Instructions		Avoid non-fire fighting equipped personnel to enter. Extinguish upwind from the fire wearing appropriate protective gear.

Section 6 – Accidental Release Measures

Spills/Leaks	Evacuate spill area. Provide adequate ventilation. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Do not contact with skin. Do not inhale. Wash spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling	Wear appropriate protective gear. Do not contact with eyes, skin and on clothing. Do not inhale. Handle with care. Wash mouth and hand after handling the material.
Storage	Keep container tightly closed. Avoid such conditions as direct sunlight and high piling. Store in low-humid, low-temperature area.

Section 8 – Exposure Controls, Personal Protection

Engineering Controls	Facilities storing or utilizing the material should be equipped with an eye wash facilities and a safety shower. Use adequate ventilation to keep airbone concentrations low.
Exposure Limits	Not data found
Personal Protective Equipment	
Eyes	Safety goggles
Skin	Rubber gloves
Clothing	Protective clothing and rubber boots
Respirators	Anti-dust mask

Section 9 – Physical and Chemical Properties

Physical State	Powder
Appearance	Yellow – orange brown
Odor	None
pH	No data found
Boiling point	No data found
Melting point	No data found

Flash Point	No data found
Autoignition	No data found
Explosibility	No data found
Vapor Pressure	No data found
Vapor Density	No data found
Solubility	Unsoluble in water

Section 10 – Stability and Reactivity

Stability	Unstable and decompose light, to heat, causing a deterioration in quality
Conditions to avoid	Direct sunlight, high temperature, high humidity and high piling
Incompatibilites with Other Material	There is a possibility to migrate to severe degradation by hydrolysis with water, and the accumulation of heat of decomposition. Acids, alkalis, heavy metals to promote the decomposition.
Hazardous Decomposition Products	Toxic gases of Carbon Monoxide, Nitrogen Oxides, Hydrogen chloride, and Sulfur Oxides
Hazardous Polymerization	Will not occur

Section 11 – Toxicological Information

RTECS #	No data found
LD50/LC50	No data found
Carcinogenicity	No data found
Mutagenicity	No data found
Reproductive Effects	No data found
Teratogencity	No data found
Immunology	No data found
Irritation	May be irritating to eyes, skin or membrane

Section 12 – Ecological Information

Ecotoxicity	No data found
Environmental Standard	No data found

Section 13 – Disposal Consideration

Disposal Method	Federal (national), state or local laws and regulations will determine the proper waste disposal method.
Regulations	Federal (national), state or local laws and regulations

Section 14 – Transport Information

Shipping Name	Self-reactive Solid type B
Hazard Class	4.1
UN #	3222
Packing Group	-

Section 15 – Regulatory Information

United States	**TSCA**	No data found
EC	**EINECS**	No data found
Canada	**WHMIS**	No data found
Japan	**PRTR Law**	Not on the list

Section 16 – Other Information

MSDS Creation Date	July 19, 2012
Revised Date	March 31, 2014
Revised No.	Revised 2nd
MSDS No.	G1219