

MATERIAL SAFETY DATA SHEET

Revision #: 02

Section 1 - Product Identification & Use

Product Name: **Twister**
 WHMIS Classification: Class D2B, Toxic materials
 TDG Classification: Not regulated
 Supplier: Advance Chemicals Ltd.
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Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD ₅₀ & LC ₅₀
Sodium Carbonate	60-100	497-19-8	(oral, rat) 4090mg/kg
Sodium metasilicate pentahydrate	5-10	10213-79-3	(oral, rat) 847mg/kg
Sodium hydroxide	3-7	1310-73-2	(oral, rabbit) 500mg/kg
Alky aryl sulphonate	3-7	68081-81-2	N/A

Section 3 - Physical Data

Physical state: Powder Boiling point: N/A
 Specific Gravity: N/A Freezing point: N/A
 pH: 10.5 +/- 0.5 (1% sol.) Solubility in water: 20%
 Vapour pressure: N/A Evaporation rate: N/A
Odour & Appearance: White powder with a citrus fresh odour.

Section 4 - Fire or Explosion Hazard

Flammability: The product is not considered to be flammable.
Extinguishing media: Water. Wear full chemical protective clothing. Use an extinguishing media for surrounding the fire, or all purpose foam by manufacturer's recommended techniques for large fires. Use water to cool fire exposed containers to prevent vapour build-up and rupture.
Hazardous Combustion/Decomposition Products: Heat. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin lead and zinc. Decomposition may also produce oxides of carbon and sodium.

Section 5 - Reactivity Data

Stability: Stable.
Incompatible substances: Incompatible with acids.
Polymerization: Will not occur.
Conditions to Avoid: Excessive heat, may thermally decompose to produce carbon monoxide, carbon dioxide, and oxides of sodium.

Section 6 - Toxicological Properties

Inhalation: Severe irritation of the throat and nasal passages may result from inhaling dust or mists of this product.
Skin contact: Defatting of the skin/or dermatitis occurs with prolonged contact.
Eye contact: May cause persistent eye irritation and possible eye damage.
Ingestion: May cause nausea, vomiting, diarrhea, abdominal pain, and burning of the mouth and esophagus.

Section 7 - Preventative Measures

Personal Protective Equipment: Avoid contact with skin and eyes. Wear chemical protective gloves, goggles and face shield, rubber apron and boots. Eye wash fountains and safety shower facilities should be provided nearby for emergency use.
Respiratory protection: Use an NIOSH/MSHA approved air purifying, dust, mist and particulate respirator.
Action to take for spills & leaks: Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small spills should be swept or vacuumed up and disposed of in government approved waste containers. The spill area may then be flushed with large quantities of water. Larger spills should be contained by diking with sand, soil or other non-combustible material, then transferred into approved waste containers for proper disposal. Do not allow spilled, or waste product to flow into waterways. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste. Remaining spill residues may be

treated with a dilute acid solution to neutralize, then washed with water.

Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.

Note: Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

Storage & Handling Precautions: Warning. Harmful or fatal if swallowed. Causes eye, skin and respiratory irritation. Avoid contact with eyes and repeated contact with skin and clothing. Do not ingest. Keep container tightly closed when not in use. Store upright in a cool, dry, well ventilated place away from incompatible materials. Do not use pressure to empty container. Wash thoroughly after handling. Use with adequate ventilation.

Repair and Maintenance Precautions: Do not cut, grind, weld or drill in, on or near this container.

Section 8 - First Aid Measures

If inhaled: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. Keep patient warm and at rest.

In case of eye contact: Immediately flush eyes with clean water for at least twenty (20) minutes, lifting the upper and lower eye lids to ensure complete flushing action of the eyeball. Get immediate emergency medical attention. Do not transport victim until the recommended flushing period has been completed, unless eye flushing can be carried out during transport.

In case of skin contact: Immediately flush skin with plenty of clean running water for at least twenty (20) minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Launder clothes before re-use.

In case of ingestion or swallowing: If victim is conscious, dilute stomach contents by giving large amounts of water or milk. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all inclusive, and the manner and conditions of use may involve other and additional considerations.

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