

Material Safety Data Sheet



CHLORINATING GRANULES 62%

SECTION I - IDENTIFICATION

MANUFACTURER'S NAMEHaviland Consumer Products, Inc.
MANUFACTURER'S ADDRESS421 Ann St., N.W., Grand Rapids, MI 49504
PHONE NUMBER..... (616) 361-6691
EMERGENCY PHONE NUMBERCHEMTREC (800) 424-9300
EFFECTIVE DATE.....4/21/03
TRADE NAME.....**CHLORINATING GRANULES 62%**
CHEMICAL FAMILY.....Chlorinated Isocyanurates

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
Sodium Dichloroisocyanurate (min. 96% by wt)	1.5mg/m ³ =0.5ppm for chlorine gas TWA	3.mg/m ³ =1ppm for chlorine gas TWA	2893-78-9

SECTION III - PHYSICAL DATA

BOILING POINT No Information Available
FREEZING POINT 240-250°C (Decomposes)
VAPOUR PRESSURE Not Applicable
VAPOUR DENSITY (air=1) Not Applicable
SOLUBILITY IN H₂O..... 250 g/liter of water
ODOUR AND APPEARANCE White granule; Slight Chlorine Odor
SPECIFIC GRAVITY Not Applicable
pH..... 1% Solution: 6.0-7.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATIONNot Flammable
LOWER EXPLOSIVE LIMIT (% by Volume) Not Applicable
UPPER EXPLOSIVE LIMIT (% by Volume) Not Applicable
MEANS OF EXTINCTION.....Thermal decomposition can be extinguished by flooding with copious quantities of water (small amounts of water may aggravate the situation) or by isolating the decomposing material and allowing it to be consumed.
SPECIAL FIRE FIGHTING PROCEDURES.....Firefighters and others subjected to products of decomposition should wear full protective clothing and self-contained breathing apparatus. Chlorine-containing gases with traces of phosgene can be liberated at temperatures in excess of 400oF.
UNUSUAL FIRE HAZARD.....Nitrogen trichloride can be generated by reaction of water on product under certain conditions. The reaction of water with this chlorinating composition generally does not present an explosion hazard as rate of nitrogen trichloride formation is very slow.

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SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTS None
NTP? No
IARC MONOGRAPHS? No
OVER EXPOSURE EFFECTS Eye damage, burns to skin, irritation of nose and throat.
PRIMARY ROUTE(S) OF ENTRY Ingestion; Eye and Skin Contact
SPECIFIC FIRST AID PROCEDURES In case of contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. If inhaled: Remove to fresh air. If swallowed: Drink milk, water or raw egg whites. Get medical attention. Do not induce vomiting. For Skin: Thoroughly flush skin with plenty of water and wash contaminated clothes before reuse. If irritation persists, seek medical attention.
EXPOSURE AGGRAVATED MEDICAL CONDITIONS None Currently Known

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable under normal storage conditions.
CONDITIONS TO AVOID Avoid contact with water, humidity and temperatures over 50°C.
INCOMPATIBLE MATERIALS Product attacks metals in general. Reacts with water in small quantities (large amounts may be needed in case of fire), oxidant & reducing agents, alkalis, nitrogen products, ammonium salts, urea, amines, quaternary ammonium derivatives, oils, fats, peroxide
HAZARDOUS DECOMPOSITION PRODUCTS In combination with above materials, it decomposes and gives off a great quantity of heat, chlorine, nitrogen trichloride, etc. with subsequent danger of explosion if nitrogen trichloride level is high enough.
HAZARDOUS POLYMERIZATION Will Not Occur
POLYMERIZATION AVOID Not Applicable

SECTION VII - SPILL OR LEAK PROCEDURE

LEAK AND SPILL PROCEDURES Contain spilled material. Do not allow water or other incompatible substances to come into contact with spilled material. Keep out of sewers, watersheds, and water systems. Sweep up material and place in clean, dry labeled container for disposal.
WASTE DISPOSAL Neutralized and greatly diluted with water, material may be poured into sewer dependent upon local regulations. Disposal of dry product should be carried out according to federal, state and local regulations for industrial waste. Contaminated material must be destroyed by dilution with large volumes of water. Comply with all federal, state and local regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION NIOSH approved equipment with full facepiece when airborne exposure limits are exceeded.
VENTILATION To maintain dusts below limits.
PROTECTIVE GLOVES Rubber or other impervious materials.
EYE PROTECTION Chemical splash proof goggles.
OTHER PROTECTIVE EQUIPMENT A safety shower and eye bath should be available. For operations where spills or splashing may occur, use an impervious body covering and boots.
HANDLING PROCEDURES AND EQUIPMENT Store in cool, dry, well ventilated area away from ignition sources and other chemicals. Keep containers closed when not in use. Do not use metallic or wooden containers. Do not produce dust when handling.

SECTION IX - SPECIAL PRECAUTIONS

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HAZARD CLASS OXIDIZER, 5.1, PG II
DOT SHIPPING NAME..... DICHLOROCYANURIC ACID, DRY
UN NUMBER..... UN2465
REPORTABLE QUANTITY (RQ)..... None

REFERENCES

DICHLOR WARNING!! STRONG
OXIDIZING AGENT - USE DRY, CLEAN
UTENSILS - KEEP AWAY FROM
NATURALLY OCCURRING ORGANIC
MATERIALS. EPA REG.# 57787-6 HMIS
RATING: H-3, F-0, R-2