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M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1. - - - - - CHEMICAL IDENTIFICATION- - - - -

CATALOG #: 71938  
NAME: SODIUM THIOCYANATE

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 540-72-7  
MF: CNNAS  
EC NO: 208-754-4

SYNONYMS

HAIMASED \* NATRIUMRHODANID (GERMAN) \* SCYAN \* SODIUM ISOTHIOCYANATE \*  
SODIUM RHODANATE \* SODIUM RHODANIDE \* SODIUM SULFOCYANATE \* SODIUM  
SULFOCYANIDE \* SODIUM THIOCYANATE \* SODIUM THIOCYANIDE \* THIOCYANATE  
SODIUM \* USAF EK-T-434 \*

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

HARMFUL  
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.  
CONTACT WITH ACIDS LIBERATES VERY TOXIC GAS.

IRRITATING TO EYES.

TARGET ORGAN(S):

CENTRAL NERVOUS SYSTEM

CARDIOVASCULAR SYSTEM

CAUSES EYE IRRITATION.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF  
WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE  
PROTECTION.

LIGHT SENSITIVE

HYGROSCOPIC

SECTION 4. - - - - - FIRST-AID MEASURES- - - - -

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
CALL A PHYSICIAN.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL  
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER  
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND

SHOES. CALL A PHYSICIAN.

IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER  
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING  
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA

WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO  
PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES- - - - -

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY  
RUBBER GLOVES.

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.  
AVOID RAISING DUST.  
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.  
EVACUATE AREA.

SECTION 7. - - - - - HANDLING AND STORAGE- - - - -  
REFER TO SECTION 8.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -  
DO NOT BREATHE DUST.  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
NIOSH/MSHA-APPROVED RESPIRATOR.  
COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
CHEMICAL SAFETY GOGGLES.  
KEEP TIGHTLY CLOSED.  
STORE IN A COOL DRY PLACE.  
WASH THOROUGHLY AFTER HANDLING.  
SAFETY SHOWER AND EYE BATH.  
USE ONLY IN A CHEMICAL FUME HOOD.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -  
APPEARANCE AND ODOR  
SOLID.

PHYSICAL PROPERTIES  
MELTING POINT: 287 C  
SWISS POISON CLASS: 4

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -  
STABILITY  
STABLE.

CONDITIONS TO AVOID  
MAY DECOMPOSE ON EXPOSURE TO LIGHT.  
INCOMPATIBILITIES  
PROTECT FROM MOISTURE.  
ACIDS  
STRONG BASES  
STRONG OXIDIZING AGENTS  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
CARBON MONOXIDE, CARBON DIOXIDE  
NITROGEN OXIDES  
SULFUR OXIDES  
HAZARDOUS POLYMERIZATION  
WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -  
ACUTE EFFECTS

CAUSES SKIN IRRITATION.  
HARMFUL IF ABSORBED THROUGH SKIN.  
CAUSES EYE IRRITATION.  
HARMFUL IF INHALED.  
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER  
RESPIRATORY TRACT.  
HARMFUL IF SWALLOWED.  
EXPOSURE CAN CAUSE:  
NAUSEA, HEADACHE AND VOMITING  
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

CHRONIC EFFECTS  
TARGET ORGAN(S):  
CENTRAL NERVOUS SYSTEM  
CARDIOVASCULAR SYSTEM  
THYROID

RTECS #: XL2275000  
THIOCYANIC ACID, SODIUM SALT

TOXICITY DATA  
ORL-RAT LD50:764 MG/KG JAPMA8 29,152,1940  
IPR-RAT LD50:540 MG/KG JPETAB 96,416,1949  
ITR-RAT LD50:232 MG/KG 85GMAT -,106,1982  
ORL-MUS LD50:362 MG/KG 85GMAT -,106,1982

IPR-MUS LD50:500 MG/KG  
IVN-MUS LD50:484 MG/KG

JJPAAZ 3,99,1954  
JAPMA8 29,152,1940

TARGET ORGAN DATA

PERIPHERAL NERVE AND SENSATION (FLACCID PARALYSIS WITHOUT ANESTHESIA)  
AUTONOMIC NERVOUS SYSTEM (OTHER: PARASYMPATHOMIMETIC)  
BEHAVIORAL (TREMOR)  
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)  
BEHAVIORAL (EXCITEMENT)  
BEHAVIORAL (FOOD INTAKE)  
BEHAVIORAL (MUSCLE CONTRACTION OR SPASTICITY)  
LUNGS, THORAX OR RESPIRATION (DYSPPNAE)  
LUNGS, THORAX OR RESPIRATION (RESPIRATORY STIMULATION)  
GASTROINTESTINAL (NAUSEA OR VOMITING)  
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES  
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR  
COMPLETE INFORMATION.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -  
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -  
CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF  
THIS MATERIAL.  
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A  
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.  
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -  
CONTACT FLUKA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -

EUROPEAN INFORMATION

EC INDEX NO: 615-004-00-3  
HARMFUL  
R 20/21/22  
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.  
R 32  
CONTACT WITH ACIDS LIBERATES VERY TOXIC GAS.  
S 13  
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK  
NOHS 1974: HZD 84443; NIS 28; TNF 5091; NOS 31; TNE 28357  
NOES 1983: HZD 84443; NIS 26; TNF 1116; NOS 25; TNE 28328; TFE 6415  
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY  
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

SECTION 16. - - - - - OTHER INFORMATION - - - - -

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