

CORONATE HXR

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTIFIER: **CORONATE HXR**

MANUFACTURER / IMPORTER: TOSOH SPECIALTY CHEMICALS USA, Inc. ADDRESS:

1720 Windward Concourse, Suite 125

Alpharetta, Georgia 30005

PHONE: 770-442-9501

EMERGENCY PHONE: CHEMTREC 1-800-424-9300 OR 1-703-527-3887

RECOMMENDED USE: General industrial products

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity

Acute toxicity (inhalation: dust, mist) Category 4 Category 1 Skin sensitization Specific target organ toxicity - single exposure Category 3

HAZARD SYMBOL:



SIGNAL WORD: **WARNING**

HAZARD STATEMENTS: Harmful if inhaled.

> May cause an allergic skin reaction. May cause respiratory irritation.

PREVENTION: Avoid breathing

dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Contaminated clothing must not be allowed out

of the workplace.

SAFETY DATA SHEET: CORONATE HXR - US-GHS Version

Date Prepared: November 13, 2015 Supercedes: April 5, 2015 (Page 1 of 8)

2. HAZARDS IDENTIFICATION (continued)

RESPONSE: If breathing is difficult, remove person

to fresh air and keep comfortable for breathing.
Call a poison control center/doctor if you feel

unwell.

If on skin (or hair): Wash with plenty of water. If skin irritation or rash occurs: Get medical

advice/attention.

Wash contaminated clothing before reuse.

STORAGE: Store in a well-ventilated place. Keep container

tightly closed. Store locked up.

DISPOSAL: Dispose of contents/container in accordance

with Federal and state regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

		USHA	
Chemical Name	CAS#	Hazardous(Y/N)	Concentration (%)
Hexamethylene diisocyanate			
polymer	28182-81-2	Υ	> 99
Hexamethylene diisocyanate	822-06-0	Υ	< 1

4. FIRST AID MEASURES

EYE CONTACT: Hold eyelids open and flush with a steady, gentle

stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists.

SKIN CONTACT: Remove contaminated clothing and shoes. Wash

with plenty of water, for at least 15 minutes. Seek medical attention if irritation develops or persists. Launder contaminated clothing and

shoes before re-use.

INGESTION: Do not induce vomiting. If victim is conscious and

alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do

not leave victim unattended.

INHALATION: If respiratory irritation or distress occurs, remove

victim to fresh air. Seek immediate medical

attention.



4. FIRST AID MEASURES (continued)

NOTES TO PHYSICIAN: All treatments should be based on observed

signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this

product may have occurred. Treat

symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog, dry chemical, foam, CO₂

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers may rupture due to buildup of pressure when exposed to extreme heat. Cool containers exposed to fire with water. After the fire is extinguished, neutralize the spilled material with decontaminant. Keep the area clear. Clean up residual material by washing area with water.

Collect washings for disposal.

SPECIAL PROTECTIVE EQUIPMENT

FOR FIRE FIGHTERS:

Firefighters should wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to

fire with water.

HAZARDOUS DECOMPOSITION

MATERIALS UNDER FIRE CONDITIONS: Oxides of carbon, hydrogen cyanide.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Evacuate area. Wear appropriate protective

gear for the situation. (See Personal Protection

Information in Section 8).

ENVIROMENTAL PRECAUTIONS: Do not flush to drain. Spills may be reportable

to the National Response Center (800-424-8802) and to state and/or local agencies.

METHOD FOR CLEAN UP: (Small spill) Spray with a neutralizing agent to

neutralize. Absorb with an inert absorbant. Dispose of absorbant and rags, waste paper, etc., remove and store in a container with a lid. (Large spill) Dike spill to contain it. Recover as much spill material as possible. Spray with a neutralizing agent to neutralize. Absorb with an inert absorbant. Clean up residual material by washing area with water. Collect washings for disposal. Spills may be reportable to the

National Response Center (800-424-8802) and

to state and/or local agencies.

SAFETY DATA SHEET: CORONATE HXR - US-GHS Version

Date Prepared: November 13, 2015 Supercedes: April 5, 2015 (Page 3 of 8)

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Handle material with suitable protection (See

Section 8). Handle with adequate ventilation. Avoid breathing vapors. Avoid contact with

eyes, skin and clothing.

VENTILATION: General area dilution/exhaust ventilation.

CONDITIONS FOR SAFE STORAGE: Store upright in a cool, dry, well ventilated area

out of direct sunlight. Keep away from heat, open flames and ignition sources. Keep container tightly closed. Do not reuse container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES: Set up hand-wash station and eyewash station

near work area.

General area dilution/exhaust ventilation.

EXPOSURE LIMITS:

Hexamethylene diisocyanate 0.005 ppm – ACGIH TWA

PERSONAL PROTECTION MEASURES:

Respiratory protection: When respirators are required, select

NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with regulatory standards and/or industrial recommendations. Self-contained or

supplied-air respiratory equipmment is

recommended.

Eye protection: Safety glasses with side shields, goggles or face

shield are recommended.

Skin protection: Skin contact should be minimized through the

use of chemical-resistant gloves and boots, and

suitable protective clothing.

The following general measures should be taken when working or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

SAFETY DATA SHEET: CORONATE HXR – US-GHS Version

Date Prepared: November 13, 2015 Supercedes: April 5, 2015 (Page 4 of 8)



9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid Pale yellow COLOR: ODOR: Nearly odorless No data available pH: **MELTING POINT:** No data available **BOILING POINT:** No data available FLASH POINT: 437F (225C) **AUTOIGNITION POINT:** No data available No data available **EXPLOSIVE LIMITS(Lower):** No data available **EXPLOSIVE LIMITS(Upper): VAPOR PRESSURE:** No data available **VAPOR DENSITY:** No data available **EVAPORATION RATE:** No data available 1.164 @ 73F (23C) **SPECIFIC GRAVITY:**

SOLUBILITY IN WATER: Insoluble

PARTITION COEFFICIENT:

DECOMPOSITION TEMPERATURE:

No data available

No data available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Material is reacts with water, forming carbon

dioxide. Reacts exothermically with amines,

water, and alcohols.

CONDITIONS TO AVOID: Heat, open flame, sparks.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong acids, amines,

water, and alcohols.

HAZARDOUS DECOMPOSITION

PRODUCTS: Oxides of carbon, hydrogen cyanide.

HAZARDOUS POLYMERIZATION: Not applicable

11. TOXICOLOGICAL INFORMATION

EYE CORROSION/IRRITATION: Not irritating, rabbit. **SKIN CORROSION/IRRITATION:** Not irritating, rabbit.

ACUTE TOXICITY:

ACUTE ORAL TOXICITY: LD ₅₀ > 5000 mg/kg, rat.

ACUTE DERMAL TOXICITY: LD ₅₀ > 9400 mg/kg, rabbit. (Data for

polyisocyante class)

ACUTE INHALATION TOXICITY: LC $_{50}$ = 402 mg/L/4 hour, rat (aerosol). Such

aerosols are not encountered outside of the

experimental laboratory.

SKIN SENSITIZATION Positive dermal sensitizer (quinea pig and Local

Lymph Node Assay).

SAFETY DATA SHEET: CORONATE HXR - US-GHS Version

Date Prepared: November 13, 2015 Supercedes: April 5, 2015 (Page 5 of 8)

11. TOXICOLOGICAL INFORMATION (continued)

GENETIC TOXICITY Negative in the Ames, the Chinese Hamster

Ovary and the Chromosomal Aberration studies

CARCINOGENICITY: No data available. This product does not contain

any substances that are considered by OSHA,

NTP, IARC or ACGIH to be "probable" or

"suspected" human carcinogens.

REPRODUCTIVE TOXICITY: No data available.

STOT-SINGLE EXPOSURE: Inhalation is expected to be irritating.

STOT-REPEATED EXPOSURE: No data available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: 96hr $LC_{50} > 100 \text{ mg/L}$, zebra fish

48hr $EC_{50} > 100$ mg/L, daphnia

72hr EC₅₀ > 1640 mg/L algae, growth rate (Data

for polyisocyante class)

PERSISTENCE AND DEGRADABILITY: Not readily biodegradable (Data for

polyisocyante class)

MOBILITY IN SOIL: No data available

13. DISPOSAL CONSIDERATION (INCLUDING CONTAINER)

RESIDUAL WASTE: Chemical additions, processing or otherwise

altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from Federal laws and regulations. Consult state and local regulations regarding the proper disposal

of this material.

CONTAMINATED VESSELS AND CONTAINERS:

CONTAINERS: Rinse containers before disposal. Do not allow

rinsate to enter the water systems. EPA Hazardous Waste = No



14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:NOT REGULATED

UN NUMBER:
UN CLASS or DIVISION:
None
UN PACKING GROUP:
None
LABELS:
None
EMERGENCY GUIDE#:
None

15. REGULATORY INFORMATION

Inventory Status: US (TSCA): Yes

Canada (DSL): Yes

EU (REACH): Exempt (polymer)

Australia (AICS): Yes Japan (METI): Yes Korea (KECL): Yes

Where: Yes = all ingredients are listed on the inventory, Exempt = All ingredients are either on the inventory or exempt from the requirements of listing, No = Not determined, or one or more ingredients are not on the inventory and are not exempt from listing

SARA Title III Hazard Classes: Fire Hazard: No

Reactive Hazard: No Release of Pressure: No Acute Health Hazard: Yes Chronic Health Hazard: Yes

SARA Extremely Hazardous Substances/CERCLA Hazardous Substances:

Diisocynates (generic group) 100%

California Proposition 65: This product does not contain any components that are regulated under Proposition 65.

16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THIS MSDS

National Fire Protection Association ("NFPA") Hazard Ratings:

Health: 2 (Moderate)
Flammability: 1 (Slight)
Reactivity: 1 (Slight)

National Paint and Coatings Hazardous Materials Identification System ("HMIS") Hazard Ratings:

Health: 2 (Moderate)
Flammability: 1 (Slight)
Physical Hazard: 1 (Slight)

SAFETY DATA SHEET: CORONATE HXR - US-GHS Version

Date Prepared: November 13, 2015 Supercedes: April 5, 2015 (Page 7 of 8)



16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THIS MSDS (continued)

HISTORY:

Date previous SDS: April 5, 2015
Date of issue: November 13, 2015

Reasons for Revision: Revised Company Phone Number

Disclaimer: The information set forth herein has been gathered from standard reference materials and/or TOSOH SPECIALTY CHEMICALS USA, INC and its related, subsidiary and affiliated companies' test data and is to the best knowledge and belief of TOSOH SPECIALTY CHEMICALS USA, INC and its related, subsidiary and affiliated companies, accurate and reliable. Such information is offered solely for your consideration, investigation, and verification, and is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones that exist. TOSOH SPECIALTY CHEMICALS USA, INC and its related, subsidiary and affiliated companies make no warranties, express or implied, and expressly disclaim any and all such warranties with respect to the use of such information or the use of specific material identified herein in combination with any other material or process, and assume no responsibility therefor. TOSOH SPECIALTY CHEMICALS USA, INC and its related, subsidiary and affiliated companies make no representation or warranty, express or implied, and EXPRESSLY DISCLAIM ANY AND ALL SUCH WARRANTIES, as to the usefulness, sufficiency, MERCHANTABILITY or FITNESS FOR ANY PURPOSE whatsoever of the materials identified herein. The purchaser bears sole responsibility for testing, evaluating and determining the suitability of these materials for whatever use(s), manufacturing and refining processes, and any other such application(s) for which it intends or ultimately makes of these materials. Purchaser bears sole responsibility for obtaining any and all regulatory, legal and governmental approval necessary for such use(s).

END OF SAFETY DATA SHEET

SAFETY DATA SHEET: CORONATE HXR – US-GHS Version Date Prepared: November 13, 2015 Supercedes: April 5, 2015 (Page 8 of 8)