

**** MATERIAL SAFETY DATA SHEET ****

3,4-Dichlorophenyl isocyanate, 99+%

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: 3,4-Dichlorophenyl isocyanate, 99+%

Catalog Numbers:

29223-0000, 29223-0050, 29223-0250, 29223-0500

Synonyms:

Company Identification (Europe): Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium

Company Identification (USA): Acros Organics
 One Reagent Lane
 Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
102-36-3	3,4-Dichlorophenyl isocyanate	99+%	203-026-2		

Hazard Symbols: T

Risk Phrases: 25 36/37/38 42 20

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Toxic if swallowed. Irritating to eyes, respiratory system and skin.
 May cause sensitization by inhalation. Harmful by inhalation. Moisture sensitive.

Potential Health Effects

Eye:

Causes eye irritation. Lachrymator (substance which increases the flow of tears).

Skin:

Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion:

May cause irritation of the digestive tract. Toxic if swallowed.

Inhalation:

Harmful if inhaled. Causes respiratory tract irritation. May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Chronic:

Repeated exposure may cause allergic respiratory reaction (asthma).

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid immediately. Wash mouth out with water.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Use carbon dioxide or dry chemical.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State:	Solid
Color:	white
Odor:	unpleasant odor
pH:	Not available.
Vapor Pressure:	0.2 mm Hg @ 20 deg C
Viscosity:	Not available.
Boiling Point:	118.0 - 120.0 deg C @ 18.00mm
Freezing/Melting Point:	40.00 - 43.00 deg C
Autoignition Temperature:	Not available.
Flash Point:	110 deg C (230.00 deg F)

Explosion Limits, lower: 2.00 vol %
Explosion Limits, upper: Not available.
Decomposition Temperature:
Solubility in water: Decomposes.
Specific Gravity/Density:
Molecular Formula: C7H3Cl2NO
Molecular Weight: 188.01

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:
Not available.
Conditions to Avoid:
Incompatible materials, exposure to moist air or water, heat.
Incompatibilities with Other Materials:
Alcohols, bases, acids, strong oxidizing agents, amines.
Hazardous Decomposition Products:
Hydrogen chloride, hydrogen cyanide, nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
CAS# 102-36-3: NQ8760000
LD50/LC50:
CAS# 102-36-3: Inhalation, mouse: LC50 = 140 mg/m³/2H; Inhalation, rat: LC50 = 2700 mg/m³/4H; Oral, rat: LD50 = 91 mg/kg.
Carcinogenicity:
3,4-Dichlorophenyl isocyanate -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.

**** SECTION 14 - TRANSPORT INFORMATION ****

IATA
Shipping Name: DICHLOROPHENYL ISOCYANATES
Hazard Class: 6.1
UN Number: 2250
Packing Group: II
IMO
Shipping Name: DICHLOROPHENYL ISOCYANATES
Hazard Class: 6.1
UN Number: 2250
Packing Group: II
RID/ADR
Shipping Name: DICHLOROPHENYL ISOCYANATES
Hazard Class: 6.1
UN Number: 2250
Packing group: II

**** SECTION 15 - REGULATORY INFORMATION ****

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: T
Risk Phrases:
R 20 Harmful by inhalation.

R 25 Toxic if swallowed.
R 36/37/38 Irritating to eyes, respiratory system
and skin.
R 42 May cause sensitization by inhalation.

Safety Phrases:

S 22 Do not breathe dust.
S 26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.
S 28A After contact with skin, wash immediately with
plenty of water.
S 37/39 Wear suitable gloves and eye/face
protection.
S 45 In case of accident or if you feel unwell, seek
medical advice immediately (show the label where
possible).

WGK (Water Danger/Protection)

CAS# 102-36-3: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 102-36-3 is listed on Canada's NDSL List.

CAS# 102-36-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 102-36-3: OEL-RUSSIA:STEL 0.3 mg/m³;Skin

US FEDERAL

TSCA

CAS# 102-36-3 is listed on the TSCA inventory.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 7/16/1996 Revision #1 Date: 5/22/2002

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.
