# Material Safety Data Sheet
## Vinylbenzyl Chloride (Mixt. of m-and p-Isomers), 96% (GC), Stabilized

ACC# 66794

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Vinylbenzyl Chloride (Mixt. of m-and p-Isomers), 96% (GC), Stabilized
**Catalog Numbers:** AC422530000, AC422531000
**Synonyms:** Chloromethylstyrene.
**Company Identification:**

Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410

**For information in North America, call:** 800-ACROS-01
**For emergencies in the US, call CHEMTREC:** 800-424-9300

## Section 2 - Composition, Information on Ingredients

| CAS# | Chemical Name | Percent | EINECS/ELINCS |
|---|---|---|---|
| 57458-41-0 | Vinylbenzyl Chloride | 96 | unlisted |

## Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: Clear liquid.
**Danger!** Corrosive. Causes eye and skin burns. Lachrymator (substance which increases the flow of tears). May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns. May cause central nervous system effects. May cause cardiac disturbances. Air sensitive. Light sensitive.
**Target Organs:** Central nervous system, cardiovascular system.

**Potential Health Effects**
**Eye:** Causes eye burns. Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. Lachrymator (substance which increases the flow of tears). May cause chemical conjunctivitis and corneal damage.
**Skin:** Causes skin burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.
**Ingestion:** May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. May cause central nervous system effects. May cause cardiac abnormalities. May cause systemic effects.
**Inhalation:** Causes chemical burns to the respiratory tract. Aspiration may lead to pulmonary edema. May cause cardiac abnormalities. May cause systemic effects. May cause Central Nervous System Effects characterized by apathy, mental confusion, blurred vision, and tremors.
**Chronic:** Effects may be delayed.

## Section 4 - First Aid Measures

**Eyes:** Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).
**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.
**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
**Notes to Physician:** Treat symptomatically and supportively.

## 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode if exposed to fire. Runoff from fire control or dilution water may cause pollution.
**Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Use agent most appropriate to extinguish fire.
**Flash Point:** 104 deg C ( 219.20 deg F)
**Autoignition Temperature:** 614 deg C ( 1,137.20 deg F)
**Explosion Limits, Lower:**Not available.
**Upper:** Not available.
**NFPA Rating:** (estimated) Health: 2; Flammability: 2; Instability: 1

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.
**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Place under an inert atmosphere.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Store protected from light. Handle under an inert atmosphere. Store protected from air. Use only in a chemical fume hood. Discard contaminated shoes.
**Storage:** Keep container closed when not in use. Corrosives area. Keep refrigerated. (Store below 4°C/39°F.) Do not expose to air. Store protected from light. Store under an inert atmosphere.

## 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 only under a chemical fume hood.
**Exposure Limits**

| Chemical Name | ACGIH | NIOSH | OSHA - Final PELs |
|---|---|---|---|
| Vinylbenzyl Chloride | none listed | none listed | none listed |

**OSHA Vacated PELs:** Vinylbenzyl Chloride: No OSHA Vacated PELs are listed for this chemical.
**Personal Protective Equipment**
**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
**Skin:** Wear appropriate protective gloves to prevent skin exposure.
**Clothing:** Wear appropriate protective clothing to minimize contact with skin.
**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid
**Appearance:** Clear
**Odor:** Not available.
**pH:** Not available.
**Vapor Pressure:** Not available.
**Vapor Density:** 5.3
**Evaporation Rate:**Not available.
**Viscosity:** Not available.
**Boiling Point:** 229 deg C @ 760.00mm Hg
**Freezing/Melting Point:**Not available.
**Decomposition Temperature:**Not available.
**Solubility:** Not available.
**Specific Gravity/Density:**1.0740g/cm3
**Molecular Formula:**C9H9Cl
**Molecular Weight:**152.62

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. Air sensitive. Light sensitive.
**Conditions to Avoid:** Incompatible materials, light, exposure to air, excess heat, strong oxidants.
**Incompatibilities with Other Materials:** Air, direct light, acids, bases, activated carbon, metals.
**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
**Hazardous Polymerization:** Has not been reported

## Section 11 - Toxicological Information

**RTECS#:**
**CAS#** 57458-41-0 unlisted.
**LD50/LC50:**
Not available.

**Carcinogenicity:**
CAS# 57458-41-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information found
**Teratogenicity:** No information found
**Reproductive Effects:** No information found
**Mutagenicity:** No information found

**Neurotoxicity:** No information found
**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: Pseudomonas putida:

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
**RCRA P-Series:** None listed.
**RCRA U-Series:** None listed.

## Section 14 - Transport Information

| | US DOT | Canada TDG |
|---|---|---|
| **Shipping Name:** | CORROSIVE LIQUIDS, N.O.S. | CORROSIVE LIQUID NOS (VINYLBENZENE CHLORIDE) |
| **Hazard Class:** | 8 | 8 |
| **UN Number:** | UN1760 | UN1760 |
| **Packing Group:** | II | II |

## Section 15 - Regulatory Information

### US FEDERAL

**TSCA**
CAS# 57458-41-0 is not listed on the TSCA inventory. It is for research and development use only.
**Health & Safety Reporting List**
None of the chemicals are on the Health & Safety Reporting List.
**Chemical Test Rules**
None of the chemicals in this product are under a Chemical Test Rule.
**Section 12b**
None of the chemicals are listed under TSCA Section 12b.
**TSCA Significant New Use Rule**
None of the chemicals in this material have a SNUR under TSCA.
**CERCLA Hazardous Substances and corresponding RQs**
None of the chemicals in this material have an RQ.
**SARA Section 302 Extremely Hazardous Substances**
None of the chemicals in this product have a TPQ.
**Section 313** No chemicals are reportable under Section 313.
**Clean Air Act:**
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
**Clean Water Act:**
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
**OSHA:**
None of the chemicals in this product are considered highly hazardous by OSHA.
**STATE**
CAS# 57458-41-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

### European/International Regulations
**European Labeling in Accordance with EC Directives**
**Hazard Symbols:**
C
**Risk Phrases:**
R 34 Causes burns.

**Safety Phrases:**
S 25 Avoid contact with eyes.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face pr
otection.
S 28A After contact with skin, wash immediately with plenty of water
.

**WGK (Water Danger/Protection)**
CAS# 57458-41-0: No information available.
**Canada - DSL/NDSL**

None of the chemicals in this product are listed on the DSL or NDSL list.

**Canada - WHMIS**

not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

## Section 16 - Additional Information

**MSDS Creation Date:** 9/02/1997
**Revision #8 Date:** 10/03/2005