# Material Safety Data Sheet

## Dodecyl aldehyde, 96%, stabilized with 0.1% BHA

ACC# 69714

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Dodecyl aldehyde, 96%, stabilized with 0.1% BHA
**Catalog Numbers:** AC117650000, AC117650020, AC117651000
**Synonyms:** Lauraldehyde; Dodecanal; Lauryl aldehyde; Dodecyl aldehyde.
**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 |
|---|---|---|---|
| 112-54-9 | Dodecyl aldehyde | 96 | 203-983-6 |
| 25013-16-5 | Butylated hydroxyanisole | 0.1 | 246-563-8 |

## Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: colorless liquid.
**Caution!** May cause eye and skin irritation. May cause respiratory tract irritation. Refrigerate upon arrival below 4°C/39°F.
**Target Organs:** Eyes.

**Potential Health Effects**
**Eye:** May cause eye irritation. May cause irritation of the conjunctiva.
**Skin:** May cause skin irritation. No skin absorption data found. Not expected to cause an allergic skin reaction.
**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
**Inhalation:** May cause respiratory tract irritation.
**Chronic:** No information found.

## Section 4 - First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid.
**Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.
**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.
**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
**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. Use water spray to keep fire-exposed containers cool. Liquid will float and may reignite on the surface of water.
**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical powder or appropriate foam. Product will float on water.
**Flash Point:** 101 deg C ( 213.80 deg F)
**Autoignition Temperature:** Not available.
**Explosion Limits, Lower:**Not available.
**Upper:** Not available.
**NFPA Rating:** (estimated) Health: 1; Flammability: 1; Instability: 0

## 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.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
**Storage:** Keep refrigerated. (Store below 4°C/39°F.) Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

## 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 ventilation to keep airborne concentrations low.
**Exposure Limits**

| Chemical Name | ACGIH | NIOSH | OSHA - Final PELs |
|---|---|---|---|
| Dodecyl aldehyde | none listed | none listed | none listed |
| Butylated hydroxyanisole | none listed | none listed | none listed |

**OSHA Vacated PELs:** Dodecyl aldehyde: No OSHA Vacated PELs are listed for this chemical. Butylated hydroxyanisole: No OSHA Vacated PELs are listed for this chemical.
**Personal Protective Equipment**
**Eyes:** Wear chemical splash 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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid
**Appearance:** colorless
**Odor:** fatty odor - floral-like
**pH:** Not applicable.
**Vapor Pressure:** 0.0153 mm Hg @ 25 deg C
**Vapor Density:** Not available.
**Evaporation Rate:**Not available.
**Viscosity:** Not available.
**Boiling Point:** 237-239 deg C
**Freezing/Melting Point:**12 deg C
**Decomposition Temperature:**Not available.
**Solubility:** Insoluble.
**Specific Gravity/Density:**0.8310 g/cm3
**Molecular Formula:**C12H24O
**Molecular Weight:**184.32

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.
**Conditions to Avoid:** Excess heat, prolonged exposure to air.
**Incompatibilities with Other Materials:** Strong oxidizing agents, strong reducing agents, strong acids, strong bases, amines, ammonia.
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.
**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**
**CAS#** 112-54-9: JR1910000
**CAS#** 25013-16-5: SL1945000
**LD50/LC50:**
CAS# 112-54-9:
Draize test, rabbit, skin: 500 mg/24H Moderate;
Oral, rat: LD50 = 23 gm/kg;
.

CAS# 25013-16-5:
Oral, mouse: LD50 = 1100 mg/kg;
Oral, rabbit: LD50 = 2100 mg/kg;
Oral, rat: LD50 = 2 gm/kg;
.

**Carcinogenicity:**
CAS# 112-54-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 25013-16-5:

- **ACGIH:** Not listed.

- **California:** carcinogen, initial date 1/1/90
- **NTP:** Suspect carcinogen
- **IARC:** Group 2B carcinogen

**Epidemiology:** No data available.
**Teratogenicity:** No data available.
**Reproductive Effects:** No data available.
**Mutagenicity:** No data available.
**Neurotoxicity:** No data available.
**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.
**Environmental:** Most aldehydes are readily degradable. This material will float on the surface of water.
**Physical:** No information available.
**Other:** No information available.

## 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:** | Not regulated as a hazardous material | No information available. |
| **Hazard Class:** | | |
| **UN Number:** | | |
| **Packing Group:** | | |

## Section 15 - Regulatory Information

### US FEDERAL

**TSCA**
CAS# 112-54-9 is listed on the TSCA inventory.
CAS# 25013-16-5 is listed on the TSCA inventory.
**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# 112-54-9 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
CAS# 25013-16-5 can be found on the following state right to know lists: California, Minnesota, Massachusetts.

**California Prop 65**
WARNING: This product contains Butylated hydroxyanisole, a chemical known to the state of California to cause cancer.
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:**

Not available.

**Risk Phrases:**

**Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection)**

CAS# 112-54-9: No information available.
CAS# 25013-16-5: No information available.

**Canada - DSL/NDSL**

CAS# 112-54-9 is listed on Canada's DSL List.
CAS# 25013-16-5 is listed on Canada's DSL 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**

CAS# 112-54-9 is listed on the Canadian Ingredient Disclosure List.
CAS# 25013-16-5 is listed on the Canadian Ingredient Disclosure List.

## Section 16 - Additional Information

**MSDS Creation Date:** 4/20/1998
**Revision #3 Date:** 10/03/2005

*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 event shall Fisher 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 Fisher has been advised of the possibility of such damages.*