

EN

## \*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

Isoamyl nitrite, stabilized, 90%

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

MSDS Name: Isoamyl nitrite, stabilized, 90%

Catalog Numbers:

41275-0000, 41275-1000, 41275-5000

Synonyms:

Isopentyl nitrite

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
110-46-3	Isoamyl nitrite		203-770-8		

Hazard Symbols: XN F

Risk Phrases: 11 20/22

## \*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

## EMERGENCY OVERVIEW

Highly flammable. Harmful by inhalation and if swallowed. Moisture sensitive.

## Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation. May be absorbed through the skin in harmful amounts.

Ingestion:

Harmful if swallowed.

Inhalation:

Harmful if inhaled. May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). May cause respiratory tract irritation. May cause dizziness, incoordination, and unconsciousness.

Chronic:

May cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, breath shortness, cyanosis (bluish skin due to deficient oxygenation of blood), rapid heart rate, unconsciousness and possible death.

## \*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes:

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

Skin:

Get medical aid. 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:

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. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Flammable liquid and vapor.

## Extinguishing Media:

Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide.

## \*\*\*\* 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. Remove all sources of ignition.

## \*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

## Handling:

Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

## Storage:

Keep away from sources of ignition. Store in a tightly closed container. Keep under a nitrogen blanket. Refrigerator/flammables.

## \*\*\*\* 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.

## Personal Protective Equipment

## Eyes:

Wear chemical goggles.

## Skin:

Wear appropriate protective gloves to prevent skin exposure.

## Clothing:

Wear appropriate protective clothing to minimize contact with skin.

## 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:	Clear liquid
Color:	yellow
Odor:	penetrating odor - fruity odor
pH:	Not available.
Vapor Pressure:	35 mbar @ 20 deg C
Viscosity:	Not available.

Boiling Point: 96 deg C @ 760.00mm Hg  
Freezing/Melting Point: Not available.  
Autoignition Temperature: 210 deg C ( 410.00 deg F)  
Flash Point: 10 deg C ( 50.00 deg F)  
Explosion Limits, lower: 1.50 vol %  
Explosion Limits, upper: 17.60 vol %  
Decomposition Temperature:  
Solubility in water: practically insoluble in water  
Specific Gravity/Density: .8800g/cm3  
Molecular Formula: (CH3)2CHCH2CH2ONO  
Molecular Weight: 117.15

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

Chemical Stability:

Unstable.

Conditions to Avoid:

Incompatible materials, light, exposure to air, combustible materials, exposure to moist air or water.

Incompatibilities with Other Materials:

Oxidizing agents, reducing agents, acids, alcohols, strong bases, bromides, alkali carbonates, potassium iodide, ferric salts.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

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

RTECS#:

CAS# 110-46-3: NT0187500

LD50/LC50:

CAS# 110-46-3: Inhalation, mouse: LC50 = 1430 ppm/30M; Inhalation, rat: LC50 = 716 ppm/4H; Oral, mouse: LD50 = 852 mg/kg; Oral, rat: LD50 = 505 mg/kg.

Carcinogenicity:

Isoamyl nitrite -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other:

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: AMYL NITRITE

Hazard Class: 3

UN Number: 1113

Packing Group: II

IMO

Shipping Name: AMYL NITRITE

Hazard Class: 3

UN Number: 1113

Packing Group: II

RID/ADR

Shipping Name: AMYL NITRITE

Hazard Class: 3

UN Number: 1113

Packing group: II

## \*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

## European/International Regulations

## European Labeling in Accordance with EC Directives

Hazard Symbols: XN F

## Risk Phrases:

R 11 Highly flammable.

R 20/22 Harmful by inhalation and if swallowed.

## Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 24 Avoid contact with skin.

S 46 If swallowed, seek medical advice immediately and show this container or label.

## WGK (Water Danger/Protection)

CAS# 110-46-3: 2

## United Kingdom Occupational Exposure Limits

## United Kingdom Maximum Exposure Limits

## Canada

CAS# 110-46-3 is listed on Canada's DSL List.

CAS# 110-46-3 is not listed on Canada's Ingredient Disclosure List.

## Exposure Limits

## US FEDERAL

## TSCA

CAS# 110-46-3 is listed on the TSCA inventory.

## \*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 7/16/1996 Revision #0 Date: Original.

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.

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