

Material Safety Data Sheet

Acrylomix 2.6
MSDS# 89257

Section 1 - Chemical Product and Company Identification

MSDS Name:

Acrylomix 2.6

Catalog Numbers:

A/0981/50

Synonyms:

Company Identification: Fisher Scientific UK

Bishop Meadow Road, Loughborough

Leics. LE11 5RG

For information in Europe, call: (01509) 231166

Emergency Number, Europe:

01509 231166

Section 2 - Composition, Information on Ingredients

CAS#: 79-06-1
Chemical Name: Acrylamide
%: 97.4
EINECS#: 201-173-7
Hazard Symbols:
Risk Phrases:

CAS#: 110-26-9
Chemical Name: N,N'-Methylenebis(acrylamide)
%: 2.6
EINECS#: 203-750-9
Hazard Symbols:
Risk Phrases:

Text for R-phrases: see Section 16

Hazard Symbols:

None listed

Risk Phrases:

45 46 20/21 25 36/38 43 48/23/24/25 62

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful by inhalation and in contact with skin. Toxic if swallowed.
Irritating to eyes and skin. May cause sensitization by skin
contact. May cause cancer. May cause heritable genetic damage. Toxic
: danger of serious damage to health by prolonged exposure through
inhalation, contact with skin and if swallowed. Possible risk of
impaired fertility. Toxic. Cancer suspect agent.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

May be absorbed through the skin in harmful amounts. May cause skin
sensitization, an allergic reaction, which becomes evident upon
re-exposure to this material. If absorbed, causes symptoms similar

to those of ingestion. Contact with the skin will cause peeling of the skin of the fingertips.

Ingestion:

Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause liver damage. Can cause nervous system damage. May cause pain, weakness and numbness with possible muscle paralysis.

Inhalation:

Causes respiratory tract irritation. May cause effects similar to those described for ingestion. Absorption by any route of exposure, including inhalation, may lead to nervous system disturbances.

Chronic:

Prolonged or repeated exposure may cause adverse reproductive effects. May cause cancer in humans.

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:

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 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust can be an explosion hazard when exposed to heat or flame.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use water spray to cool fire-exposed containers.

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Remove all sources of ignition.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Use only in a chemical fume hood.

Storage:

Keep away from heat, sparks, and flame. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from acids. Keep away from reducing agents. Keep away from strong bases.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use only under a chemical fume hood.

Exposure Limits

CAS# 79-06-1:

United Kingdom, WEL - TWA: 0.3 mg/m3 TWA

United Kingdom, WEL - STEL: 0.9 mg/m3 STEL

United States OSHA: 0.3 mg/m3 TWA

Belgium - TWA: 0.03 mg/m3 VLE

France - VME: 0.1 ppm VME; 0.3 mg/m3 VME

Japan: 0.1 mg/m3 OEL

Malaysia: 0.03 mg/m3 TWA

Russia: 0.05 mg/m3 TWA (vapor)

Russia: 0.2 mg/m3 STEL (vapor)

Spain: 0.03 mg/m3 VLA-ED

CAS# 110-26-9:

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 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

Color:

white

Odor:

Odorless

pH:

Not available

Vapor Pressure:

1.6 mm Hg @85C

Viscosity:

Not available

Boiling Point:

125 deg C (257.00F)

Freezing/Melting Point:

84.5 deg F (29.17C)

Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower:Not available
Explosion Limits: Upper:Not available
Decomposition Temperature: Not available
Solubility in water: Soluble in water.
Specific Gravity/Density: 1.122@30C
Molecular Formula: C3H5NO
Molecular Weight: 71.0411

Section 10 - Stability and Reactivity

Chemical Stability:

Stable. However, may decompose if heated.

Conditions to Avoid:

Incompatible materials, light, ignition sources, excess heat.

Incompatibilities with Other Materials

Not available

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide.

Hazardous Polymerization

May occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 79-06-1: AS3325000

CAS# 110-26-9: AS3678000

LD50/LC50:

RTECS: CAS# 79-06-1: Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 50 mg/3D Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Oral, mouse: LD50 = 107 mg/kg; Oral, rabbit: LD50 = 150 mg/kg; Oral, rat: LD50 = 124 mg/kg; Skin, rabbit: LD50 = 1680 uL/kg; Skin, rat: LD50 = 400 mg/kg;.

RTECS: CAS# 110-26-9: Oral, mouse: LD50 = 380 mg/kg;

Oral, rat: LD50 = 390 mg/kg;.

Carcinogenicity:

Acrylamide -

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans

California: carcinogen, initial date 1/1/90

NTP: Suspect carcinogen

IARC: Group 2A carcinogen

N,N'-Methylenebis(acrylamide) -

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location.

Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - Transport Information

IATA

Shipping Name: ACRYLAMIDE MIXTURE
Hazard Class: 6.1
UN Number: 2074
Packing Group: III

IMO

Shipping Name: ACRYLAMIDE MIXTURE
Hazard Class: 6.1
UN Number: 2074
Packing Group: III

RID/ADR

Shipping Name: ACRYLAMIDE MIXTURE
Hazard Class: 6.1
UN Number: 2074
Packing Group: III

USA RQ: CAS# 79-06-1: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

R 45 May cause cancer.
R 46 May cause heritable genetic damage.
R 20/21 Harmful by inhalation and in contact with skin.
R 25 Toxic if swallowed.
R 36/38 Irritating to eyes and skin.
R 43 May cause sensitization by skin contact.
R 48/23/24/25 Toxic : danger of serious damage to health by prolonged exposure through inhalation, contact with skin and if swallowed.
R 62 Possible risk of impaired fertility.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.
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# 79-06-1: 3

CAS# 110-26-9: 2

Canada

CAS# 79-06-1 is listed on Canada's DSL List

CAS# 110-26-9 is listed on Canada's DSL List

US Federal

TSCA

CAS# 79-06-1 is listed on the TSCA Inventory.

CAS# 110-26-9 is listed on the TSCA Inventory.

Section 16 - Other Information

Text for R-phrases from Section 2

MSDS Creation Date:

12/12/1997

Revision #4 Date

3/16/2007

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 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.
