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

Acrylamide-bis premix 37.5:1 (2.6% concentration)
30984

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

MSDS Name: Acrylamide-bis premix 37.5:1 (2.6% concentration)
Catalog Numbers:
AC400280000, AC400280300, AC400281500

Synonyms:
AAM; Acrylamid; Acrylamide Monomer; Acrylic Acid Amide; Acrylic
Amide; Propenoic Acid Amide; 2-Propenamido

Company Identification (Europe):
Acros Organics BVBA
Janssen Pharmaceuticaalaa 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#
79-06-1	Acrylamide	90-95	201-173-7
110-26-9	Methylenediacrylamide	1-5	203-750-9

Hazard Symbols: XI T
Risk Phrases: 36/37/38 45 46 24/25 48/23/24/25

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

EMERGENCY OVERVIEW

Appearance: Colorless - White Crystalline Powder.
Warning! May be harmful if absorbed through the skin. Toxic. Light sensitive. Air sensitive. Moisture sensitive. Cancer suspect agent. Harmful if swallowed. Can cause adverse reproductive effects. Causes eye and skin irritation. Causes digestive and respiratory tract irritation. May be harmful if inhaled.
Target Organs: None.

Potential Health Effects

Eye: Causes moderate eye irritation.

Skin: Causes mild skin irritation. May be harmful if absorbed through the skin. May cause local irritation characterized by blistering and desquamation of the palms and soles combined with blueness of the hands and feet.

Ingestion: Harmful if swallowed. May cause central, peripheral, and autonomic nervous system effects. Causes digestive tract irritation.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: May cause cancer in humans. Effects may be delayed.

**** 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 flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Call a poison control center. 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: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. 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:

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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. Containers may explode when heated.

Extinguishing Media:

Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

Autoignition Temperature: Not available.

Flash Point: 145 deg C (293.00 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

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

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

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Place under an inert atmosphere. Do not get water inside containers. Cover with dry earth, dry sand, or other non-combustible material followed with plastic sheet to minimize spreading and contact with water.

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

Handling:

Use only in a well-ventilated area. Minimize dust generation and accumulation. 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. Wash clothing before reuse. Keep from contact with moist air and steam.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep refrigerated. (Store below 4°C/39°F.) Do not expose to air. Store protected from moisture. Store protected from light.

**** 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.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Acrylamide	0.03 mg/m ³ ; skin - potential for cutaneous absorption	0.03 mg/m ³ TWA 60 mg/m ³ IDLH	0.3 mg/m ³ TWA
Methylenediacrylamide	none listed	none listed	none listed

OSHA Vacated PELs:

Acrylamide:
0.03 mg/m³ TWA
Methylenediacrylamide:
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 prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z89.2 requirements or European Standard EN 149 must be followed whenever workplace

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conditions warrant a respirator's use.

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

Physical State: Crystalline powder
Color: Colorless - White Crystalline Powder
Odor: None reported.
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: Decomposes
Freezing/Melting Point: Decomposes
Decomposition Temperature: 145 deg C
Solubility in water: soluble in water
Specific Gravity/Density: 1,1000 g/cm3
Molecular Formula: Not applicable.
Molecular Weight:

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

Chemical Stability:
Unstable. May decompose on exposure to moist air or water. May decompose when exposed to light. May decompose on exposure to air.
Conditions to Avoid:
Incompatible materials, light, dust generation, moisture, exposure to air, temperatures above 50°C, strong oxidants.
Incompatibilities with Other Materials:
Acids, aluminum, copper, brass, air, heat, iron salts, iron, bases, moisture, strong oxidizing agents, strong reducing agents.
Hazardous Decomposition Products:
Carbon monoxide, oxides of nitrogen, carbon dioxide, ammonia.
Hazardous Polymerization: Will occur.

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

RTECS#:
CAS# 79-06-1: AS3325000
CAS# 110-26-9: AS3678000
LD50/LC50:
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.
CAS# 110-26-9: Oral, mouse: LD50 = 380 mg/kg; Oral, rat: LD50 = 390 mg/kg.
Carcinogenicity:
Acrylamide -
ACGIH: A3 - Animal Carcinogen
California: carcinogen; initial date 1/1/90
NIOSH: potential occupational carcinogen
NTP: Suspect carcinogen
OSHA: Possible Select carcinogen
IARC: Group 2A carcinogen
Methylenediacrylamide -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology:
No information available.
Teratogenicity:
CAS# 79-06-9 Carcinogenic Effects: Oral, rat TDLo = 1456 mg/kg/2Y-C.; Oral, mouse: TDLo = 300 mg/kg/2W-I.; Neoplastic Effects: Intraperitoneal, mouse: TDLo = 24 mg.kg/8W-I.; Intraperitoneal, mouse: TD = 72 mg/kg/8W-I.
Reproductive Effects:
CAS# 110-26-9 Paternal effects: testes/sperm duct/epididymis by orl-mus TDLo = 3208 mg/kg (16 D male).; Maternal Effects: orl-mus TDLo = 360 mg/kg (male 16 days, pre-mating).; Paternal Effects: orl-mus TDLo = 50 mg/kg (male 1 day, pre-mating).; Fertility: Pre-implantation mortality- intraperitoneal, mouse TDLo = 225 mg/kg (male 1 day, pre-mating).CAS# 79-06-1 Oral, rat TDLo = 200 mg/kg (7-16D preg).; Oral, rat LD 1456 mg/kg/2Y-C.
Neurotoxicity:
No information available.
Mutagenicity:
CAS# 79-06-9 Unscheduled DNA synthesis: Human mammary gland = 1mmol/L.; Micronucleus Test: Intraperitoneal, rat = 100 mg/kg.; DNA Inhibition: rat cells = 1mmol/L.; Sister chromatid exchange: oral, rat = 600 mg/kg/10D (Continuous).; Dominant lethal test: oral, rat = 150 mg/kg/5D (Continuous).
Other Studies:
Standard Draize Test: Administration onto the skin (rabbit) = 500 mg/24H (Mild).

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

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**** 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: CAS# 79-06-1: waste number U007.

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

US DOT
Shipping Name: ACRYLAMIDE
Hazard Class: 6.1
UN Number: 2074
Packing Group: III
Canadian TDG
No information available.

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

US FEDERAL
TSCA
CAS# 79-06-1 is listed on the TSCA inventory.
CAS# 110-26-9 is listed on the TSCA inventory.
Health & Safety Reporting List
CAS# 79-06-1: Effective Date: 10/4/82; Sunset Date: 10/4/92
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
CAS# 79-06-1: 6a/12b
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
SARA
CERCLA Hazardous Substances and corresponding RQs
CAS# 79-06-1: 5000 lb final RQ, 2270 kg final RQ
SARA Section 302 Extremely Hazardous Substances
CAS# 79-06-1: 1,000 lb TPQ (lower threshold); 10,000 lb TPQ (upper threshold)
SARA Codes
CAS # 79-06-1: acute, chronic, sudden release of pressure, reactive.
CAS # 110-26-9: acute, chronic, reactive.
Section 313
This material contains Acrylamide (CAS# 79-06-1, 90 95%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.
Clean Air Act:
CAS# 79-06-1 is listed as a hazardous air pollutant (HAP).
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
Acrylamide can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts, Methylenediacrylamide is not present on state lists from CA, PA, MN, MA, FL, or NJ.
The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:
WARNING: This product contains Acrylamide, a chemical known to the state of California to cause cancer.
California No Significant Risk Level:
CAS# 79-06-1: 0.2 ug/day NSRL
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XI T
Risk Phrases:
R 36/37/38 Irritating to eyes, respiratory system and skin.
R 45 May cause cancer.
R 46 May cause heritable genetic damage.
R 24/25 Toxic in contact with skin and if swallowed.
R 48/23/24/25 Toxic : danger of serious damage to health by prolonged exposure through inhalation, contact with skin and if swallowed.
Safety Phrases:
S 53 Avoid exposure - obtain special instructions before use.
S 45 In case of accident or if you feel unwell, seek

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medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 79-06-1: 3
CAS# 110-26-9: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

CAS# 79-06-1: MEL-United Kingdom, TWA 0.3 mg/m3 TWA

Canada

CAS# 79-06-1 is listed on Canada's DSL List.
CAS# 110-26-9 is listed on Canada's DSL List.
This product has a WHMIS classification of D1B, D2B.
CAS# 79-06-1 is listed on Canada's Ingredient Disclosure List.
CAS# 110-26-9 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 79-06-1: OEL-AUSTRALIA:TWA 0.3 mg/m3;Skin;Carcinogen
OEL-BELGIUM:TWA 0.3 mg/m3;Skin;Carcinogen
OEL-DENMARK:TWA 0.3 mg/m3;Skin;Carcinogen
OEL-FINLAND:TWA 0.3 mg/m3;STEL 0.9 mg/m3
OEL-FRANCE:TWA 0.3 mg/m3
OEL-GERMANY;Skin;Carcinogen
OEL-HUNGARY;STEL 0.3 mg/m3;Skin;Carcinogen
OEL-JAPAN:TWA 0.3 mg/m3;Skin
OEL-THE NETHERLANDS:TWA 0.3 mg/m3
OEL-THE PHILIPPINES:TWA 0.3 mg/m3;Skin
OEL-RUSSIA:STEL 0.2 mg/m3;Skin
OEL-SWEDEN:TWA 0.3 mg/m3;STEL 0.9 mg/m3;Skin JAN9
OEL-SWITZERLAND:TWA 0.3 mg/m3;Skin;Carcinogen
OEL-UNITED KINGDOM:TWA 0.3 mg/m3;STEL 0.6 mg/m3;Skin
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

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

MSDS Creation Date: 11/04/1998 Revision #4 Date: 12/03/2002

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.

