



Issuing Date 07-May-2009

Revision Date 21-Feb-2013

Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name ACRYL/BIS™ 37.5:1 PREMIXED POWDER

Product Code(s) 0907

Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use

Company
AMRESKO, LLC
6681 Cochran Road
Solon, Ohio 44139

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number 1-800-448-4442
E-mail Address info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Carcinogen 1 Germ Cell Mutagenicity 1B Toxic to Reproduction 2 Acute Toxicity Oral 3 Acute Toxicity Dermal 3 Specific Target Organ Toxicity (Single) 1 Acute Toxicity Inhalation 4 Skin Irritant 2 Eye Irritant 2 Skin Sensitizer 1

Signal Word Danger



Hazard Statements H301 - Toxic if swallowed H311 - Toxic in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H332 - Harmful if inhaled H340 - May cause genetic defects H350 - May cause cancer H361 - Suspected of damaging fertility or the unborn child H370 - Causes damage to organs

Precautionary Statements

P201 - Obtain special instructions before use P260 - Do not breathe dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308 + P313 - IF exposed or concerned: Get medical attention/advice

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Acrylamide	EEC No. 201-173-7	Not available	79-06-1	97-98	Xn; R20/21 T; R25-48/23/24/25 Xi; R36/38 R43 Carc.Cat.2; R45 Muta.Cat.2; R46 Repr.Cat.3; R62
Methylene diacrylamide	EEC No. 203-750-9	Not available	110-26-9	2-3	-

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician if necessary.
Inhalation	Move to fresh air. If breathing becomes difficult, give oxygen. Consult a physician if necessary.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Consult a physician.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash Point	Not determined
Suitable Extinguishing Media	Dry chemical, CO2, appropriate foam.
Hazardous Combustion Products	Carbon oxides, Ammonia.
Explosion Data	
Sensitivity to Mechanical Impact	Not sensitive.
Sensitivity to Static Discharge	Not sensitive.

Specific Hazards Arising from the Chemical
Use water spray to cool fire-exposed containers.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Hygroscopic.

Incompatible Products

Iron and Iron salts. Oxidizing agents. Copper. Free radical initiators. Brass.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acrylamide 79-06-1	TWA: 0.03 mg/m ³	TWA: 0.3 mg/m ³	IDLH: 60 mg/m ³ TWA: 0.03 mg/m ³

Engineering Measures

Showers
Eyewash stations
Ventilation systems.

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin and Body Protection

Wear protective gloves/clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White Free-flowing	
Odor	No information available	
Odor Threshold	No information available	
Decomposition Temperature °C	No information available	
Freezing Point	No information available	
Initial Boiling Point	No information available	
Physical State	uniform crystals	
pH	No data available	
Flash Point	Not determined	
Autoignition Temperature	240 °C	
Boiling Point/Range	125 °C	
Melting Point/Range	84.5 °C	
Flammability Limits in Air	Upper No data available	Lower No data available
Explosive Properties	No information available	
Oxidizing Properties	No information available	
Evaporation Rate	No data available	
MMHG @ 37.8 C	No data available	
Vapor Density	No data available	
Specific Gravity	1.122	
Density	2.4	
Solubility	Soluble	
Partition Coefficient (n-octanol/water)	No data available	
Viscosity	No information available	

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Iron and Iron salts. Oxidizing agents. Copper. Free radical initiators. Brass.
Conditions to Avoid	Protect from moisture. Hygroscopic. Avoid contact with acids. Heating over 90 C.
Hazardous Decomposition Products	Carbon oxides. Ammonia.
Hazardous Polymerization	Hazardous polymerization may occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Causes skin and eye irritation. Toxic by inhalation, in contact with skin or if swallowed. Neurotoxin.
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acrylamide	124 mg/kg (Rat)	1680 µL/kg (Rabbit) 400 mg/kg (Rat)	
Methylene diacrylamide	390 mg/kg (Rat)		

Chronic Toxicity

Chronic Toxicity Suspected carcinogen. Suspected teratogen. Possible risk of impaired fertility. May cause an allergic skin reaction.

Chemical Name	ACGIH	IARC	NTP	OSHA
Acrylamide	A3	Group 2A	Reasonably Anticipated	X

Target Organ Effects Nerves, Kidneys, Central nervous system (CNS).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Acrylamide		LC50 103 - 115 mg/L Pimephales promelas 96 h LC50 137 - 191 mg/L Oncorhynchus mykiss 96 h LC50 74 - 150 mg/L Oncorhynchus mykiss 96 h LC50= 124 mg/L Pimephales promelas 96 h LC50 81 - 150 mg/L Lepomis macrochirus 96 h		EC50 = 98 mg/L 48 h
Chemical Name			Log Pow	
Acrylamide			= -1.24	

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

IATA

UN-No 2074
Proper Shipping Name ACRYLAMIDE, SOLID
Hazard Class 6.1
Packing Group III

DOT

Proper Shipping Name ACRYLAMIDE, SOLID
Hazard Class 6.1
UN-No 2074
Packing Group III

15. REGULATORY INFORMATION

REACH Title VII Restrictions

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law.
Acrylamide	>=>0.1 % weight	Not applicable	X	Not applicable	2	Deleterious
Methylene diacrylamide	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II	
Acrylamide 79-06-1 (97-98)	Not applicable	Not applicable	97-1-171, 0.1 % or more in mixtures	Not applicable	>= 0.1 %	
Methylene diacrylamide 110-26-9 (2-3)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Does not Comply
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Acrylamide	79-06-1	97-98	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depleters	Class 2 Ozone Depleters
Acrylamide	79-06-1	97-98	Present	Group I		

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Acrylamide	5000 lb	5000 lb

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Acrylamide	79-06-1	Carcinogen Developmental Male Reproductive

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Acrylamide	X	X	X	X	X

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Acrylamide	A3	Mexico: TWA 0.03 mg/m ³

Canada

WHMIS Hazard Class

D1B Toxic materials
D2A Very toxic materials
D2B Toxic materials



Chemical Name	NPRI
Acrylamide	X

16. OTHER INFORMATION

Issuing Date

07-May-2009

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Revision Note
No information available

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS