



Issuing Date 31-Jul-2009

Revision Date 28-Nov-2011

Revision Number 1

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

**Product Name** Acryl-40 Solution  
**Product Code(s)** 0132  
**Recommended Use** For Further Manufacturing Use Only  
Not for Human or Animal Drug Use  
**Synonyms** ACRYLAMIDE (ACGIH:DOT:OSHA) \* ACRYLIC AMIDE \* AKRYLAMID (CZECH)  
\*  
**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 1B Mutagen 1B Toxic to Reproduction 2 Skin Sensitizer 1 Acute Toxicity Oral 3 Acute Toxicity Inhalation 4 Acute Toxicity Dermal 4 Specific Target Organ Toxicity (repeated) 1 Skin Irritant 2 Eye Irritant 2

**Signal Word** Danger



**Hazard Statements** H301 - Toxic if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H312 - Harmful in contact with skin H332 - Harmful if inhaled H340 - May cause genetic defects H350 - May cause cancer H361 - Suspected of damaging fertility or the unborn child H372 - Causes damage to organs through prolonged or repeated exposure H317 - May cause an allergic skin reaction

**Precautionary Statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+ P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician  
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
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	35-45	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
Trade Secret	Not Listed	Not available	-	1.5-1.10	-
Trade secret resin	Not Listed	Not available	-	1.0-1.6	-

**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.

**Inhalation**

Move to fresh air. If breathing becomes difficult, give oxygen.

**Ingestion**

Clean mouth with water and afterwards drink plenty of water.

**Notes to Physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Flammable Properties**

Not flammable.

**Flash Point**

Not determined

**Suitable Extinguishing Media**

Dry chemical, CO2, water spray or regular foam.

**Hazardous Combustion Products**

Carbon oxides, Nitrogen oxides (NOx), Ammonia.

**Explosion Data**

**Sensitivity to Mechanical Impact**

Not sensitive.

**Sensitivity to Static Discharge**

Not sensitive.

**Specific Hazards Arising from the Chemical**

Containers may explode when heated.

**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**

Soak up with inert absorbent material. 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. Protect from moisture.

**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

**Incompatible Products**

Acids. Bases. Strong oxidizers. Reducing agents. Iron and Iron salts. Iron Salts. Copper. Aluminium. Brass. Free radical initiators. Heating over 50 C.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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

**Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems.

**Personal Protective Equipment**

**Eye/Face Protection**

Avoid contact with eyes. Tightly fitting safety goggles.

**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	Clear, colorless
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	Liquid
pH	No data available
Flash Point	Not determined
Autoignition Temperature	No data available
Boiling Point/Range	No data available
Melting Point/Range	No data available
Flammability Limits in Air	<b>Upper</b> No data available <b>Lower</b> 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	No data available
Solubility	No information available
Partition Coefficient (n-octanol/water)	No data available
Viscosity	No information available

## 10. STABILITY AND REACTIVITY

Stability	Unstable.
Incompatible Products	Acids. Bases. Strong oxidizers. Reducing agents. Iron and Iron salts. Iron Salts. Copper. Aluminium. Brass. Free radical initiators. Heating over 50 C.
Conditions to Avoid	Protect from moisture.
Hazardous Decomposition Products	Carbon oxides. Ammonia. Nitrogen oxides (NOx).
Hazardous Polymerization	Hazardous polymerization may occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Product Information	Toxic if swallowed. Harmful by inhalation. Product is harmful by skin contact. Neurotoxin. Sensitizer. Causes skin and eye irritation. Material may be irritating to mucous membranes and upper respiratory tract.
---------------------	--

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acrylamide	124 mg/kg ( Rat )	400 mg/kg ( Rat ) 1680 µL/kg ( Rabbit )	

### Chronic Toxicity

Chronic Toxicity	Suspected carcinogen. Suspected mutagen. Suspected teratogen.
------------------	---

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

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

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms.

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
<b>Chemical Name</b> Acrylamide			<b>Log Pow</b> = -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** 2810  
**Proper Shipping Name** Liquid Toxic, Organic, N.O.S., (Containing Acrylamide)  
**Hazard Class** 6.1  
**Packing Group** III

### DOT

**Proper Shipping Name** Liquid Toxic, Organic, N.O.S., (Containing Acrylamide)  
**Hazard Class** 6.1  
**UN-No** 2810  
**Packing Group** III

## 15. REGULATORY INFORMATION

**REACH Title VII Restrictions** No information available.

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
Trade Secret	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Trade secret resin	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 ( 35-45 )	Not applicable	Not applicable	97-1-171, 0.1 % or more in mixtures	Not applicable	>= 0.1 %	
Trade Secret ( 1.5-1.10 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Trade secret resin ( 1.0-1.6 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

**International Inventories**

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

**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	35-45	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 Depletors	Class 2 Ozone Depletors
Acrylamide	79-06-1	35-45	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

**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 <sup>3</sup>

**Canada**

**WHMIS Hazard Class**

- D1B Toxic materials
- D2A Very toxic materials
- D2B Toxic materials



Chemical Name	NPRI
Acrylamide	X

**16. OTHER INFORMATION**

Issuing Date 31-Jul-2009

Revision Date 28-Nov-2011

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**