



Issuing Date 07-May-2009

Revision Date 31-Mar-2011

Revision Number 7

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

Product Name Acrylamide
Product Code(s) 0341
Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use
Recommended Use Gel Electrophoresis
Synonyms ACRYLAMIDE (ACGIH:DOT:OSHA) * ACRYLIC AMIDE * AKRYLAMID (CZECH) *AMID KYSELINY AKRYLOVE (CZECH) * ETHYLENECARBOXAMIDE * PROPENAMIDE * 2-PROPENAMIDE (9CI) * PROPENOIC ACID AMIDE * RCRA WASTE NUMBER U007 * UN2074 (DOT) * VINYL AMIDE *

Company
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2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Carcinogen 1B Skin Irritant 2 Skin Sensitizer 1 Specific Target Organ Toxicity (Repeated) 4 Toxic to Reproduction 2 Mutagen 1B Acute Toxicity 3 Acute Toxicity 4 Eye Irritant 2

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 if inhaled H350 - May cause cancer by inhalation H361 - Suspected of damaging fertility or the unborn child if inhaled H402 - Harmful to aquatic life

Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 P301 - IF SWALLOWED P310 - Immediately call a POISON CENTRE or doctor/physician

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	95-100	Carc.Cat.2;R45 Muta.Cat.2;R46 Repr.Cat.3;R62 T;R25-48/23/24/25 Xn;R20/21 Xi;R36/38 R43

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 plenty of water.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person.

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 (vacated) TWA: 0.03 mg/m ³ Skin	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, eye and respiratory tract irritation. Very toxic by inhalation, in contact with skin, or if swallowed.
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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)	

Chronic Toxicity

Chronic Toxicity	Suspected carcinogen. Suspected teratogen. Possible risk of impaired fertility.
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Chemical Name	ACGIH	IARC	NTP	OSHA
Acrylamide	A3	Group 2A	Reasonably Anticipated	X

Teratogenic May cause congenital malformation in the fetus

Target Organ Effects Nerves, Kidneys.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Acrylamide		LC50= 109 mg/L Pimephales promelas 96 h LC50= 120 mg/L Brachydanio rerio 96 h LC50= 124 mg/L Pimephales promelas 96 h LC50= 162 mg/L Oncorhynchus mykiss 96 h LC50= 85 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 Regulated
UN-No 2074
Proper Shipping Name ACRYLAMIDE, SOLID
Hazard Class 6.1
Packing Group III

DOT Regulated
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

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 (95-100)	Not applicable	Not applicable	97-1-171, 0.1 % or more in mixtures	Not applicable	>= 0.1 %

International Inventories

TSCA Complies
 EINECS/ELINCS Complies
 ENCS Complies
 IECS Complies
 KECL Complies
 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	95-100	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	95-100	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

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 Mexico: STEL= 0.06 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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

Revision Date 31-Mar-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