

Material Safety Data Sheet



NeoCryl B-735

Section 1. Chemical product and company identification

Product name : NeoCryl B-735
Supplier : DSM NeoResins+, Inc. Telephone : +1 (978) 658-6600
730 Main Street
Wilmington, MA 01887
USA
Chemical formula : Not applicable.
Material uses : Resin used in the production of coatings, inks and/or adhesives
Emergency telephone number : 800-424-9300 Medical Emergency
For chemical emergency, spill, leak, fire, exposure or accident: call CHEMTREC day or night. DOMESTIC NORTH AMERICA 800-424-9300; INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

Section 2. Hazards identification

Physical state : Solid. [Beads]
Odor : Odorless.
Emergency overview : DANGER!
MAY CAUSE SEVERE ALLERGIC SKIN REACTION.
May cause sensitization by skin contact. Do not get on skin or clothing. Wash thoroughly after handling.
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	1
Physical hazards	0
PERSONAL PROTECTION	

The PPE (Personal Protection Equipment) designation in the HMIS is provided for use by employees at supplier sites only. Other users of this product are encouraged to evaluate the hazards of the product and assign PPE that is applicable to their specific situations.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin : May cause sensitization by skin contact.
Eyes : No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.

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Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Medical conditions aggravated by over-exposure	: Pre-existing skin disorders may be aggravated by over-exposure to this product.
Remarks	: Dust may cause mechanical irritation.
See toxicological information (Section 11)	

Section 3. Composition/information on ingredients

Name	CAS number	% by weight
methyl methacrylate	80-62-6	0.1 - 1
n-Butyl methacrylate	97-88-1	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures

Eye contact	: Rinse with plenty of running water. Get medical attention if symptoms occur.
Skin contact	: Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Notes to physician	: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5. Fire-fighting measures

Flammability of the product	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids.
Extinguishing media	
Suitable	: Use water, foam or dry chemical powder.
Special fire-fighting procedures	: No special measures required.
Protection of fire-fighters	: Wear suitable protective clothing. Self-contained breathing apparatus.
Remarks	: This material will support combustion if ignited. Like all thermoplastic materials, it will melt under fire conditions.

Section 6. Accidental release measures

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: No special measures required.
Methods for cleaning up	: Vacuum or sweep up material and place in a designated, labeled waste container. Recycle, if possible. Prevent formation of dust clouds. Clean up affected area with a large amount of water.

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Remarks : Hazard of slipping on spilled product.
Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Section 7. Handling and storage

Handling : Use with adequate ventilation.
Storage : Keep in a cool and dry place.
Remarks : Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Take precautionary measures against static discharges. Keep away from sources of ignition.

Section 8. Exposure controls/personal protection

Engineering controls : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protection

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory : No special protection is required. In case of insufficient ventilation, wear suitable respiratory equipment.
Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Product name

methyl methacrylate

Exposure limits

ACGIH TLV (United States, 2/2010). Skin sensitizer.

TWA: 50 ppm 8 hour(s).

STEL: 100 ppm 15 minute(s).

OSHA PEL 1989 (United States, 3/1989).

TWA: 100 ppm 8 hour(s).

TWA: 410 mg/m³ 8 hour(s).

NIOSH REL (United States, 6/2009).

TWA: 100 ppm 10 hour(s).

TWA: 410 mg/m³ 10 hour(s).

OSHA PEL (United States, 6/2010).

TWA: 100 ppm 8 hour(s).

TWA: 410 mg/m³ 8 hour(s).

Consult local authorities for acceptable exposure limits.

Remarks : Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
Wear dust protection mask P2.

Section 9. Physical and chemical properties

Physical state : Solid. [Beads]
Flash point : Closed cup: Not applicable.
Color : Transparent white.
Odor : Odorless.
Specific gravity : 1.15
Viscosity : Dynamic: Not applicable.
Solubility : Insoluble in the following materials: cold water and hot water.

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Remarks : Soluble in the following materials: esters, ketones, aromatic and chlorinated solvents .

Section 10. Stability and reactivity

Stability and reactivity : The product is stable.
Conditions to avoid : No special recommendations.
Materials to avoid : No special recommendations.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
methyl methacrylate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Dermal	Rabbit	5000 mg/kg	-
	LD50 Oral	Rabbit	8700 mg/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
	LD50 Oral	Mouse	3625 mg/kg	-
	LC50 Inhalation Vapor	Rat	78000 mg/m ³	4 hours
n-Butyl methacrylate	LC50 Inhalation Vapor	Rat	78000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	16 g/kg	-
	LC50 Inhalation Vapor	Rat	29 mg/L	4 hours

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
methyl methacrylate	A4	3	-	-	-	-

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Remarks : Contains >0.1% n-Butyl methacrylate. Contains >0.1% methyl methacrylate. If the polymer matrix is destroyed e.g. when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix. Under these conditions, they may produce an allergic reaction.

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Section 12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
methyl methacrylate	Acute LC50 311000 ug/L Fresh water	Fish - Pimephales promelas - 3.8 to 6.4 cm - 1 to 2 g	96 hours
	Acute LC50 283000 ug/L Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) - 3.65 cm - 0.9 g	96 hours
	Acute LC50 259000 ug/L Fresh water	Fish - Pimephales promelas - 31 days - 15.4 mm - 0.054 g	96 hours
	Acute LC50 232200 ug/L Fresh water	Fish - Lepomis macrochirus - 3.8 to 6.4 cm - 1 to 2 g	96 hours
	Acute LC50 191000 ug/L Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) - 3.65 cm - 0.9 g	96 hours
	Acute LC50 160200 ug/L Fresh water	Fish - Pimephales promelas - 3.8 to 6.4 cm - 1 to 2 g	96 hours
	Acute LC50 159100 ug/L Fresh water	Fish - Pimephales promelas - 3.8 to 6.4 cm - 1 to 2 g	96 hours
n-Butyl methacrylate	Acute LC50 150000 ug/L Fresh water	Fish - Pimephales promelas - Adult	96 hours
	Acute LC50 130000 ug/L Fresh water	Fish - Pimephales promelas - Adult	96 hours
	EC50 25.4 mg/l LC50 11 mg/l	Daphnia Fish	48 hours 96 hours

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

Section 13. Disposal considerations

Waste disposal : Waste must be disposed of in accordance with national and local environmental regulations.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-

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IATA-DGR Class	Not regulated.	-	-	-	-
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Section 15. Regulatory information

U.S. Federal regulations :
 Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	: No products were found.		
State regulations	: Connecticut Carcinogen Reporting: None of the components are listed. Connecticut Hazardous Material Survey: None of the components are listed. Florida substances: None of the components are listed. Illinois Chemical Safety Act: None of the components are listed. Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed. Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed. Massachusetts Substances: None of the components are listed. Michigan Critical Material: None of the components are listed. Minnesota Hazardous Substances: None of the components are listed. New Jersey Hazardous Substances: None of the components are listed. New Jersey Spill: None of the components are listed. New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: None of the components are listed. Rhode Island Hazardous Substances: None of the components are listed.		

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.
WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
Benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)

United States inventory (TSCA 8b) : All components are listed or exempted.

Section 16. Other information

Label requirements	: MAY CAUSE SEVERE ALLERGIC SKIN REACTION.
Date of printing	: 8/17/2011.
Date of issue	: 8/17/2011.
Date of previous issue	: 8/17/2011.
Version	: 3
Code	: 030082WW46100 - US

Notice to reader

The information contained in the Material Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

Sources of key data : Literature data and/or investigation reports are available through the manufacturer.

Alterations compared to the previous version : Alterations compared to the previous version are marked with a little (blue) triangle.