



NORSOCRYL(R) 2-Ethylhexyl Methacrylate

Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Acrylic Monomers

Arkema Inc.
2000 Market Street
Philadelphia, PA 19103

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 767-5089 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Customer Service	800-338-1015	8:00 to 6:00 EST

Product Name NORSOCRYL(R) 2-Ethylhexyl Methacrylate
Product Synonym(s)
Chemical Family Methacrylates
Chemical Formula C₁₂H₂₂O₂
Chemical Name 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester
EPA Reg Num
Product Use Organic Intermediate

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
2-Ethyl hexyl methacrylate	688-84-6	> 99%	Y
Monomethyl ether of hydroquinone (MEHQ)	150-76-5	15 ppm	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

Colorless liquid with sweet odor

WARNING!

COMBUSTIBLE LIQUID AND VAPOR.

MAY CAUSE SKIN IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be no more than slightly toxic if swallowed, absorbed through skin or inhaled, practically non-irritating to eyes and moderately irritating to skin. Repeated exposure may cause an allergic skin reaction. Inhalation of vapor may be irritating to the respiratory tract.

**4 FIRST AID MEASURES**

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5 FIRE FIGHTING MEASURES**Fire and Explosive Properties**

Auto-Ignition Temperature	380 C	
Flash Point	92 C closed cup	Flash Point Method
Flammable Limits- Upper	NE	
Lower	0.7%	

Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions

Fight fire from a protected location - EXPLOSION HAZARD. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

When burned, the following hazardous products of combustion can occur:
Oxides of carbon

A large amount of heat can be generated when monomers are exposed to a fire. Heated sealed containers can explode.

6 ACCIDENTAL RELEASE MEASURES**In Case of Spill or Leak**

Extinguish or turn off all ignition sources. Ventilate the space involved. Wear appropriate personal protection equipment as indicated in Section 8 of this MSDS. Contain spill with inert materials. Construct a dike to prevent spreading. Collect with non-sparking tools to a suitable container. Prevent waterway contamination. Absorb liquid onto inert absorbent and place in DOT approved drums for disposal. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE



7 HANDLING AND STORAGE

Handling

Avoid contact with eyes, skin and clothing.
Avoid prolonged or repeated contact with skin.
Keep container closed.
Use only with adequate ventilation.
Wash thoroughly after handling.
Keep away from heat, sparks and flames.
Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. **DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.**

Storage

This product should be stored in a closed container, away from direct sunlight, at ambient temperatures. Storage of this product at elevated temperatures (>30 C or >85 F) reduces the shelf-life. The typical shelf-life for this product is 12 months. An air space is required above the liquid in all containers; avoid storage under an oxygen-free atmosphere.

The stability of this product should be checked periodically; typically every 90 days for bulk containers. Materials recommended for packaging include: stainless steel, aluminum, glass, HDPE, PP or PTFE.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Eye / Face Protection

Use good industrial practice to avoid eye contact.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear face shield and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

Exposure Limit	Value
Monomethyl ether of hydroquinone (MEHQ)	
ACGIH TWA	5 mg/m3



- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Colorless liquid with sweet odor
pH	NA
Specific Gravity	0.884 @ 20 C
Vapor Pressure	0.13 mbar @ 20 C
Vapor Density	8.25Kg/m ³
Melting Point	NA
Freezing Point	-50 C
Boiling Point	218 C
Solubility In Water	<0.1 g/l @ 20 C
Viscosity	1.6 mPa.s @ 20 C
Molecular Weight	198
n-Octanol/Water Partition Coefficient	log Pow = 4.24
Other Physical Data	Refractive index: 1.439 @ 20 C

10 STABILITY AND REACTIVITY**Stability**

This material is chemically stable under normal and anticipated storage and handling conditions. However, this material can undergo hazardous polymerization. See Hazardous Polymerization below for conditions to avoid.

Hazardous Polymerization

An uncontrolled polymerization may produce a rapid release of energy with the potential for an explosion of unvented closed containers or inadequately vented containers.

Incompatibility

This material polymerizes exothermically in the presence of heat, contamination, oxygen free atmosphere, free radicals, peroxides, and inhibitor depletion liberating heat.

Hazardous Decomposition Products

Oxides of carbon can be liberated at temperatures above ambient.

11 TOXICOLOGICAL INFORMATION**Toxicological Information**

Data on this material and/or its components are summarized below.

Single exposure (acute) studies indicate:

Oral - No More than Slightly Toxic to Rats (LD50 >2,000 mg/kg)

Dermal - No More than Slightly Toxic to Rats (LD50 >2,000 mg/kg)

Inhalation - No More than Slightly Toxic to Rats (6-hr LC0 14 ppm)

11 TOXICOLOGICAL INFORMATION

Eye Irritation - Practically Non-irritating to Rabbits

Skin Irritation - Moderately Irritating to Rabbits

No skin allergy or skin irritation was observed in humans following repeated exposure, although skin allergy was observed in guinea pigs. Following repeated inhalation by rats, effects on the lungs were reported. No effects on fertility or fetal developments were observed in animals. No genetic changes were observed in tests using bacteria or human cells.

12 ECOLOGICAL INFORMATION**Ecotoxicological Information**

Data on this material and/or its components are summarized below.

2-Ethyl hexyl methacrylate

This material is moderately toxic to daphnia (48-hr EC50 2.4 mg/l). The 72-hr EC50 in algae was greater than its water solubility.

Chemical Fate Information

Data on this material and/or its components are summarized below.

2-Ethyl hexyl methacrylate

This material is biodegradable under aerobic conditions (86-90% after 28-days) and is bioaccumulable (log Pow 4.24). The hydrolysis half-life is 9-days (pH 9) and is stable at pH 7.

13 DISPOSAL CONSIDERATIONS**Waste Disposal**

Incineration is the recommended method for disposal observing all local, state and federal regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

DOT Name	Non-Bulk Domestic/Bulk and Non-Bulk International: Not Regulated
DOT Technical Name	
DOT Hazard Class	
UN Number	
DOT Packing Group	PG
RQ	
DOT Special Information	Domestic Bulk shipments : Combustible liquid, n.o.s. (2-ethylhexyl methacrylate) Combustible liquid NA 1993 PG III



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15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire	Y
Delayed (Chronic) Health	N	Reactive	Y
		Sudden Release of Pressure	N

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities

2-Ethyl hexyl methacrylate

Monomethyl ether of hydroquinone (MEHQ)

CERCLA RQ

NE

NE

SARA TPQ

Massachusetts Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Monomethyl ether of hydroquinone (MEHQ)

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Monomethyl ether of hydroquinone (MEHQ)

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

Monomethyl ether of hydroquinone (MEHQ)

16 OTHER INFORMATION

Revision Information

Revision Date 11 OCT 2004 Revision Number 6
Supercedes Revision Dated 29-SEP-2003

Revision Summary

ATOFINA Chemicals, Inc. has changed its name to Arkema Inc.

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark



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Arkema Inc.

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