



# NORSOCRYL(R) 200

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) 200  
Product Synonym(s)  
Chemical Family Mixture  
Chemical Formula Mixture  
Chemical Name  
EPA Reg Num  
Product Use Inhibitor for emergency runaway polymerizations

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Tripropylene glycol	24800-44-0	77%	Y
Monomethyl ether of hydroquinone (MEHQ)	150-76-5	15%	Y
Phenothiazine	92-84-2	8%	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

Yellow-brown liquid, characteristic odor

#### DANGER!

REPEATED OR PROLONGED EXPOSURE CAUSES SKIN IRRITATION, LOSS OF SKIN COLOR, OR SKIN BURNS.

CAUSES EYE IRRITATION AND LIGHT-INDUCED SKIN REACTION.

CONTAINS PHENOTHIAZINE WHICH CAN CAUSE BLOOD, LIVER, AND KIDNEY EFFECTS BASED ON ANIMAL DATA.

CONTAINS MONOMETHYL ETHER OF HYDROQUINONE (MEHQ) WHICH IS A POSSIBLE REPRODUCTIVE HAZARD BASED ON ANIMAL DATA.

### Potential Health Effects

Skin contact and inhalation are expected to be the primary routes of occupational exposure to this material. Prolonged or repeated skin contact with this material may result in severe skin irritation or burns with redness, discoloration of hair or fingernails and loss of skin color (depigmentation), and may cause light-induced skin reactions in workers. If swallowed, this material may cause blood, liver and kidney effects. Although there have not been any reports of



adverse reproductive effects in humans, when applied to animal skin daily during pregnancy, a component of this material was toxic to the developing embryo.

**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. Destroy contaminated shoes.

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	NE	
Flash Point	>130 C	Flash Point Method
Flammable Limits- Upper	NE	
Lower	NE	

**Extinguishing Media**

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

**Fire Fighting Instructions**

Use water spray. A solid stream of water can cause frothing and spattering. 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
- Nitrogen oxides
- Sulfur oxides

**6 ACCIDENTAL RELEASE MEASURES**

**In Case of Spill or Leak**

Contain spill. Stop leak at source if this can be done safely. Ventilate area. Nonessential personnel should leave the area until cleanup is completed. Pump liquid into DOT-approved drums for disposal. Absorb remaining liquid onto inert absorbent and place in DOT approved drums for disposal. Wash area with water.

Keep concentrate and wash water from entering sewers or waterways. 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**

**Handling**

- Do not get in eyes, on skin or on clothing.
- Keep container closed.
- Use only with adequate ventilation.
- Wash thoroughly after handling.
- Do not taste or swallow.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

**Storage**

This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage.

**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. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Eye / Face Protection**

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

**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 chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

**Respiratory Protection**

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. 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 exposure limit may be significantly exceeded, 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
<b>Phenothiazine</b>	
ACGIH Skin designator	- Y
ACGIH TWA	- 5 mg/m3
<b>Monomethyl ether of hydroquinone (MEHQ)</b>	
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	Yellow-brown liquid, characteristic odor
pH	NE
Specific Gravity	1.06 @ 20 C
Vapor Pressure	0.3 Pa @ 25 C
Vapor Density	> 4
Melting Point	NA
Freezing Point	- 25 C
Boiling Point	>200 C
Solubility In Water	Partly Miscible

**10 STABILITY AND REACTIVITY****Stability**

This material is chemically stable under normal and anticipated storage and handling conditions.

**Hazardous Polymerization**

Does not occur.

**Incompatibility**

Avoid contact with strong acids, strong oxidizing agents, aluminum and copper.

**Hazardous Decomposition Products**

Oxides of carbon, nitrogen, and sulfur can be liberated at high temperatures.

**11 TOXICOLOGICAL INFORMATION****Toxicological Information**

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

**Tripropylene Glycol**

Single exposure (acute) studies indicate that this material is slightly to practically non-toxic if swallowed (rat LD50 3,000-10,000 mg/kg), practically non-toxic if absorbed through skin (rabbit LD50 >16,000 mg/kg), and non-irritating to rabbit eyes and skin.

Repeated oral exposure produced increases in liver and kidney weights in rats; however, no reproductive or developmental effects were observed. No genetic changes were observed in tests using bacteria or animal cells.

**Monomethyl ether of hydroquinone (MEHQ)**

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 1,600 mg/kg), no more than slightly toxic if absorbed through skin (rabbit LD50 >1,000 mg/kg), severely irritating to rabbit eyes

**11 TOXICOLOGICAL INFORMATION**

and corrosive to rabbit skin (24-hr exposure, occluded).

No skin irritation or allergic skin reaction was observed in humans following repeated exposure. Application to the skin of rabbits caused minimal irritation, while application to the skin of guinea pigs produced moderate to slight irritation. Repeated application to the skin of guinea pigs caused depigmentation. Repeated application to the hamster cheek pouch caused local irritation including blisters and muscular degeneration. Repeated administration in the diet of dogs produced no significant adverse effects. The only increase in tumors produced in rats following long-term administration in the diet were forestomach tumors. Ulceration and cell proliferation in the forestomach were also observed. Lifetime skin application produced no tumors in mice and rabbits. No birth defects were observed in the offspring when applied to the skin of rabbits during pregnancy, although it was toxic to the developing embryo. No genetic changes were observed in tests using bacteria.

**Phenothiazine**

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 5,000 mg/kg), practically non-toxic if absorbed through skin (rabbit LD50 >9,400 mg/kg), practically non-toxic if inhaled (rat 1-hr LC50 >200 mg/l) and non-irritating to rabbit eyes (0.0/110) and skin (0.0/8.0).

Light-induced skin reactions have occurred in humans. Heart effects were observed in the offspring of women who took this material for therapeutic purposes during pregnancy. Repeated oral administration produced effects in the liver and kidneys of rabbits. Adverse effects on the blood and spleen were observed in dogs following repeated oral exposure. Generally, no genetic changes were observed in tests using bacteria or animal cells. A positive response was reported in two tests using animal cells.

**12 ECOLOGICAL INFORMATION****Ecotoxicological Information**

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

**Monomethyl ether of hydroquinone (MEHQ)**

This material is moderately toxic to daphnia (96-hr LC50 2.2 mg/l) and no more than slightly toxic to fathead minnow (96-hr EC50 94.9-110 mg/l). In carp fed up to 400 mg/kg, no effects were seen after 95-hours. Blue-green algae exposed to 20 mg/l for 24-hours showed no toxic effects.

**Chemical Fate Information**

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

**Monomethyl ether of hydroquinone (MEHQ)**

The log octanol/water partition coefficient (log Kow) is 1.34-1.57.

**Phenothiazine**

The log Pow is 4.05.

**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 Not Regulated by DOT  
 DOT Technical Name  
 DOT Hazard Class  
 UN Number  
 DOT Packing Group PG  
 RQ

**15 REGULATORY INFORMATION**

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

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

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

**Ingredient Related Regulatory Information:**

**SARA Reportable Quantities**

	CERCLA RQ	SARA TPQ
Tripropylene glycol	NE	
Phenothiazine	NE	
Monomethyl ether of hydroquinone (MEHQ)	NE	

**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)
- Phenothiazine

**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)
- Phenothiazine

**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)
- Phenothiazine

**16 OTHER INFORMATION**

**Revision Information**

Revision Date 11 OCT 2004 Revision Number 8  
 Supersedes Revision Dated 03-SEP-2004

**Revision Summary**

A TOFINA Chemicals, Inc. has changed its name to Arkema Inc.

**Key**



## NORSOCRYL(R) 200

Material Safety Data Sheet

Arkema Inc.

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

### Miscellaneous

Grade names include: EB

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