

MATERIAL SAFETY DATA SHEET



**THORO  
SYSTEM  
PRODUCTS, INC.**

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Form No.: MSDS-67-2  
Date: 12/6/85 (rev.)

**SECTION 1 NAME & HAZARD SUMMARY**

Material name:

**ACRYL 60®**

Hazard summary (as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):

Physical Hazards: None

Health Hazards: Based on acrylic emulsion, mild irritant (eye, skin) from direct contact, irritant, nose, throat and lungs from inhalation of spray mists or generated during spray application of Acryl 60® modified cement-based mixes.

Read the entire MSDS for a more thorough evaluation of the hazards.

SECTION 2	INGREDIENTS (CAS Number)	% (wt)	ACGIH	OSHA
			TLV	PEL
	Acrylic polymer in aqueous emulsion (NR)	ca 28 (Solids)	NE	NE
	Ammonia (7664-41-7)	lt 0.15	25ppm 35ppm STEL	50ppm

Ingredients not precisely identified are proprietary or nonhazardous. Values are not product specifications. gt = greater than, lt = less than, ca = approximately

NR=Not required, NE=Not established, STEL=Short Term Exposure Limit

**SECTION 3 PHYSICAL DATA**

Boiling Point: 212°F (water) Freezing Point: 32°F (water)

Vapor Pressure (mmHg at 20°C): ≈ 17 (water)

Vapor Density (air = 1): Heavier

pH: 9.2 - 10.0

Specific gravity: 1.02

% Volatile by Volume: ca 72% (water)

Appearance and Odor: Milky white liquid. Water - like consistency. Slight ammonia odor.

Solubility in water: Dilutable

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SECTION 4 FIRE AND EXPLOSION HAZARD DATA

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Flash point (and method): NA (Non-Combustible)

Autoignition temp.: NA

Flammable limits (STP):- NA

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Extinguishing media:

Non-combustible

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Special fire fighting protective equipment:

MSHA/NIOSH approved self-contained breathing apparatus. See next paragraph and Section 5, "Hazardous decomposition products" for further explanation.

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Unusual fire and explosion hazards:

Acrylic emulsions will not burn. They may spatter if temperature exceeds boiling point (212°F). Dried polymer films are capable of burning.

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SECTION 5 REACTIVITY DATA

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Stability:

Stable

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Incompatibility (materials to avoid):

Not applicable.

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Hazardous decomposition products:

Thermal decomposition may yield oxides of carbon.

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Hazardous polymerization:

Will not occur.

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SECTION 6 HEALTH HAZARD ASSESSMENT

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General:

No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on its components.

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Ingestion:

Relative to other materials, a single dose of this product is practically non-toxic by ingestion. Based on acute toxicity studies for a number of compositionally similar acrylic emulsions the typical oral LD50(rats):gt 5.0g/kg. This product is approved for incorporation into coatings in contact with potable water (U.S. EPA).

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## MATERIAL SAFETY DATA SHEET (Cont.)

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**SECTION 6 HEALTH HAZARD ASSESSMENT (Cont.)**

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**Eye contact:**

Direct contact with emulsion may irritate human eyes. In studies of compositionally similar acrylic emulsions, rated as inconsequentially irritating to eyes (rabbit).

**Skin contact:**

Prolonged or repeated contact may irritate human skin. In skin studies (rabbit) of compositionally similar acrylic emulsions, rated as practically non-irritating.

**Skin absorption:**

No systemically toxic effects are known to occur in man via absorption of this material through skin. The LD50 dermal (rabbits) is gt 5.0g/kg for compositionally similar acrylic emulsions.

**Inhalation:**

Inhalation of vapor or mist can cause headache, nausea, and may irritate the nose, throat, or lungs. Monomer vapors may be generated if product is heated during processing operations. See Section 9.

**Other effects of overexposure:**

No other adverse clinical effects are known to be associated with exposures to this mixture.

**First aid procedures:**

Remove contaminated clothing and footwear. Wash thoroughly with soap and water.

**Skin:** If irritation persists or develops contact a physician. Wash clothing and decontaminate footwear before reuse.

**Eyes:** Flood eyes with copious amounts of water for at least 15 minutes. Contact physician if redness or irritation persists.

**Ingestion:** Give patient 1-2 glasses of water to drink and seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove person to fresh air. If cough or respiratory symptoms develop or persist (irritation of nose, throat or lungs) consult a physician.

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**SECTION 7 SPILL OR LEAK PROCEDURES**

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**Steps to be taken in case material is spilled or released:**

Keep unnecessary people away. Surfaces may be slippery, use caution. Dike and contain spill with inert material (sand, absorbent, earth, etc.). Transfer liquid to containers for recovery or disposal. Transfer solid diking/absorbent material to separate containers for disposal. Keep spills and runoff out of sewers and bodies of water.

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**SECTION 10 MISCELLANEOUS INFORMATION**

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This product is formulated for use as an admixture (additive) to cement-based coatings, plasters, mortars, patching materials etc. either as supplied or further diluted with water. Its primary function is to enhance the chemical and physical characteristics of the material to which it is added (e.g.) adhesion, compressive, tensile and flexural strengths, chemical resistance, etc.). Acryl 60® presents virtually no physical or health hazards to the user under normal conditions of use, however the user is advised to obtain, read and observe all precautions presented in the Material Safety Data Sheet (MSDS) for the products/materials to which Acryl 60® may be added. Read and follow label directions and technical bulletin number 67 for this product.

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The information herein is given in good faith  
but no warranty, expressed or implied, is made.

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Signature: *G.T. Schull*

Date: 12/6/85 (rev.)

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