



ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 14/01/2011

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Supersedes: 12/07/2016

Version: 3.0

CLM-854

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Substance name : ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O)
EC Index-No. : 607-061-00-8 (Unlabeled)
EC-No. : 201-177-9 (Unlabeled)
CAS-No. : 202326-54-3
Product code : CLM-854
Formula : $H_2^*C=^*CH^*COOH$

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use
Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover, MA 01810
USA

USA: 1-800-322-1174 Int: 1-978-749-8000

cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)

International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Dermal) H312
Acute Tox. 4 (Inhalation:vapour) H332
Skin Corr. 1A H314
Aquatic Acute 1 H400 (M=10)

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R10

Xn; R20/21/22

C; R35

N; R50

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 3 H226
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Dermal) H312
Acute Tox. 4 (Inhalation) H332
Skin Corr. 1A H314
Aquatic Acute 1 H400

Full text of H statements : see section 16

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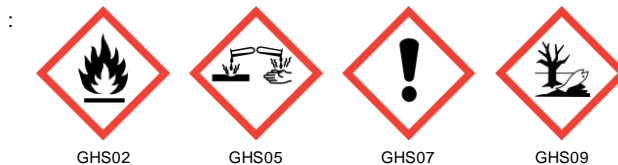
Adverse physicochemical, human health and environmental effects

Liver, Kidney.

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

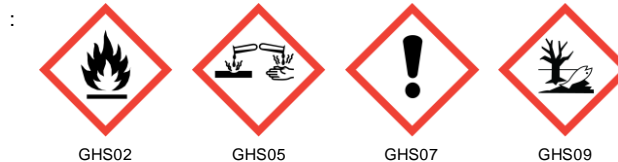
: H226 - Flammable liquid and vapor
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H314 - Causes severe skin burns and eye damage
H400 - Very toxic to aquatic life

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P260 - Do not breathe fume, mist, spray, vapors.
P264 - Wash both hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H226 - Flammable liquid and vapor
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H314 - Causes severe skin burns and eye damage
H400 - Very toxic to aquatic life

Precautionary statements (GHS-US)

: P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe fume, mist, spray, vapors.
P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.
P264 - Wash Both hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P302+P352 - If on skin: Wash with plenty of water
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center or doctor
P312 - Call a poison center or doctor if you feel unwell
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)
P330 - Rinse mouth.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.

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P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name : ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O)

CAS-No. : 202326-54-3

EC-No. : 201-177-9 (Unlabeled)

EC Index-No. : 607-061-00-8 (Unlabeled)

Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACRYLIC ACID (13C3,99%)	(CAS-No.) 95387-98-7 (EC-No.) 201-177-9 (Unlabeled) (EC Index-No.) 607-061-00-8 (Unlabeled)	99.9	R10 C; R35 Xn; R20/21/22 N; R50
4-METHOXYPHENOL UNLABELED	(CAS-No.) 150-76-5 (EC-No.) 205-769-8 (EC Index-No.) 604-044-00-7	0.1	Xn; R22 Xi; R36 R43 Repr.Cat.3; R62 Repr.Cat.3; R63 R52/53 N; R51/53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACRYLIC ACID (13C3,99%)	(CAS-No.) 95387-98-7 (EC-No.) 201-177-9 (Unlabeled) (EC Index-No.) 607-061-00-8 (Unlabeled)	99.9	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Aquatic Acute 1, H400 (M=10)
4-METHOXYPHENOL UNLABELED	(CAS-No.) 150-76-5 (EC-No.) 205-769-8 (EC Index-No.) 604-044-00-7	0.1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361fd Aquatic Chronic 3, H412

Full text of R- and H- phrases: see section 16

Name : ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O)

CAS-No. : 202326-54-3

EC-No. : 201-177-9 (Unlabeled)

EC Index-No. : 607-061-00-8 (Unlabeled)

Name	Product identifier	%	GHS-US classification
ACRYLIC ACID (13C3,99%)	(CAS-No.) 95387-98-7	99.9	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Aquatic Acute 1, H400
4-METHOXYPHENOL UNLABELED	(CAS-No.) 150-76-5	0.1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet.
- First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- First-aid measures after skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
- First-aid measures after eye contact : Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : Harmful if inhaled.
- Symptoms/effects after skin contact : Harmful in contact with skin. Causes serious skin burns.
- Symptoms/effects after eye contact : Causes serious eye damage.
- Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : For small fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapor.
- Reactivity : Reacts violently in contact with acids, amines, driers, polymerisation accelerators and easily oxidized materials. Polymerisation can occur. Vapors may form explosive mixture with air.

5.3. Advice for firefighters

- Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Flash back possible over considerable distance. Container explosion may occur under fire conditions.

6.1.1. For non-emergency personnel

- Emergency procedures : Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

- For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent build up of electrostatic charge.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store refrigerated (-5 °C - 5 °C) and desiccated.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O) (202326-54-3)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	2.000000000 ppm Upper Respiratory Tract irritation. Not classifiable as a human carcinogen.
USA OSHA	OSHA PEL (TWA) (ppm)	10.000000000 ppm Skin notation.
4-METHOXYPHENOL UNLABELED (150-76-5)		
Belgium	Limit value (mg/m ³)	5 mg/m ³ (4-Méthoxyphénol; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	5 mg/m ³ (4-Méthoxyphénol; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (4-Methoxyphenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³ USA. NIOSH Recommended Exposure Limits.
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	5 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
ACRYLIC ACID (13C3, 99%) (95387-98-7)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	2.000000000 ppm Upper Respiratory Tract irritation. Not classifiable as a human carcinogen. Danger of cutaneous absorption. USA. ACGIH Threshold Limit Values (TLV)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	6 mg/m ³ Potential for dermal absorption. USA. NIOSH Recommended Exposure Limits.
USA NIOSH	NIOSH REL (TWA) (ppm)	2 ppm Potential for dermal absorption. USA. NIOSH Recommended Exposure Limits.
USA OSHA	OSHA PEL (TWA) (ppm)	10.000000000 ppm Skin notation.
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	5.9 mg/m ³ Skin. California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	2 ppm Skin. California permissible exposure limits for chemical contaminants.

8.2. Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing : Wear suitable protective clothing and gloves.

Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid, clear
Molecular mass	: 75.04 g/mol (Labeled)
Color	: Colorless

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Odor	: Stench
Odor threshold	: No data available
pH	: 1.0 - 2 at 500 g/l
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 13 °C (55 °F) - lit
Freezing point	: No data available
Boiling point	: 139 °C (282 °F) - lit
Flash point	: 46 °C (115 °F) - closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 5 hPa (4 mmHg) at 20 °C (68 °F) 53 hPa (40mmHg) at 60 °C (140 °F)
Relative vapor density at 20 °C	: 2.49 - (Air = 1.0)
Relative density	: No data available
Specific gravity / density	: 1.051 g/mL at 25 °C (77 °F)
Solubility	: Water: Completely miscible
Log Pow	: 0.46
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 2 - 13.7 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently in contact with acids, amines, driers, polymerisation accelerators and easily oxidized materials. Polymerisation can occur. Vapors may form explosive mixture with air.

10.2. Chemical stability

Stable if stored under recommended conditions.

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents, Strong bases, Oxygen, Polymerizing initiators, Peroxide.

10.6. Hazardous decomposition products

Formed under fire conditions: Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation:vapour: Harmful if inhaled.

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O) (202326-54-3)	
LD50 oral rat	357 mg/kg
LC50 inhalation rat (mg/l)	> 5.1 mg/l - 4 h male and female (OECD Test Guideline 403)
ATE CLP (oral)	357.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (vapors)	11.000 mg/l/4h
4-METHOXYPHENOL UNLABELED (150-76-5)	
LD50 oral rat	1600 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Directive 67/548/EEC, Annex V, B.3.)
ATE CLP (oral)	1600.000 mg/kg body weight

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ACRYLIC ACID (13C3, 99%) (95387-98-7)	
LD50 oral rat	357 mg/kg
LC50 inhalation rat (mg/l)	> 5.1 mg/l/4h (OECD Test Guideline 403)
ATE CLP (oral)	357.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h

Skin corrosion/irritation	: Skin - Rabbit Result: Causes burns. Skin - Rabbit - Causes severe burns. - Draize Test pH: 1.0 - 2 at 500 g/l
Serious eye damage/irritation	: Eye damage - Category 1 - implicit Eyes - Rabbit - Result: Corrosive - 24 h PH: 1.0 - 2 at 500 g/l
Respiratory or skin sensitization	: Did not cause sensitization on laboratory animals. Guinea pig result: Does not cause skin sensitisation.
Germ cell mutagenicity	: Laboratory experiments have shown mutagenic effects.
Carcinogenicity	: This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification.
Reproductive toxicity	: Not available
Specific target organ toxicity – single exposure	: Not classified No data available
Specific target organ toxicity – repeated exposure	: Not classified No data available
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumosis, pulmonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver - Irregularities - Based on Human Evidence. Stomach - Irregularities - Based on Human Evidence.
Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes serious skin burns.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life.

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O) (202326-54-3)	
LC50 fish 1	27 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.205 mg/l Desmodesmus subspicatus (green algae) - 72 h
ErC50 (algae)	0.04 mg/l Desmodesmus subspicatus (green algae) - 96 h

4-METHOXYPHENOL UNLABELED (150-76-5)	
LC50 fish 1	28.5 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	3 mg/l (EC50; 48 h)
ErC50 (algae)	54.7 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h (OECD Test Guideline 201)
NOEC (chronic)	2.96 mg/l Pseudokirchneriella subcapitata (green algae) - 72 d (OECD Test Guideline 201)
Threshold limit algae 2	4.4 mg/l (EC0)

ACRYLIC ACID (13C3, 99%) (95387-98-7)	
EC50 other aquatic organisms 1	0.205 mg/l static test EC50 - Desmodesmus subspicatus (green algae) - 72 h
ErC50 (algae)	0.04 mg/l Desmodesmus subspicatus (green algae) - 96 h

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12.2. Persistence and degradability

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O) (202326-54-3)	
Persistence and degradability	Aerobic - exposure time: 28 d. Biodegradability Result: 90 % - Readily biodegradable.
4-METHOXYPHENOL UNLABELED (150-76-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
BOD (% of ThOD)	0.57
Biodegradation	86 % - Readily biodegradable (OECD Test Guideline 301C)
ACRYLIC ACID (13C3, 99%) (95387-98-7)	
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	80 - 90 % - Readily biodegradable (OECD Test Guideline 301D)

12.3. Bioaccumulative potential

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O) (202326-54-3)	
Log Pow	0.46
4-METHOXYPHENOL UNLABELED (150-76-5)	
Log Pow	1.34 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
ACRYLIC ACID (13C3, 99%) (95387-98-7)	
Log Pow	0.46

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : Environmental precautions. Avoid release to the environment. Disposal must be done according to official regulations.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.

Product/Packaging disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

14.1. UN number

UN-No. (DOT) : 2218
DOT NA no. UN2218

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Acrylic acid, stabilized
Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT) : 8 - Corrosive
3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

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DOT Special Provisions (49 CFR 172.102)	: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT RQ	: 5000 lbs
Marine pollutant	: No



14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR)	: II
Class (ADR)	: 8 - Corrosive substances
Hazard identification number (Kemler No.)	: 839
Classification code (ADR)	: CF1
Hazard labels (ADR)	: 8 - Corrosive substances 3 - Flammable liquids



Orange plates :

Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 1I
EAC	: •2W
APP	: A(fl)
Excepted quantities (ADR)	: E2

Transport by sea

DOT Vessel Stowage Location	: C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 25 - Shade from radiant heat, 40 - Stow "clear of living quarters"
MFAG-No	: 132P

Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
Civil Aeronautics Law	: Corrosive substances

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O)

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14.4. Environmental hazards

Dangerous for the environment

:



Other information

: No supplementary information available.

14.5. Special precautions for user

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O) (202326-54-3)	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
4-METHOXYPHENOL UNLABELED (150-76-5)	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
ACRYLIC ACID (13C3, 99%) (95387-98-7)	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

15.2. International regulations

CANADA

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O) (202326-54-3)
Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O)(202326-54-3)				
U.S. - California - Proposition 65 - Carcinogens List	No			
U.S. - California - Proposition 65 - Developmental Toxicity	No			
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No			
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No			
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List			
4-METHOXYPHENOL UNLABELED (150-76-5)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)

ACRYLIC ACID (+ 0.1% 4-METHOXYPHENOL) (13C3, 99%) (<5% H2O)

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4-METHOXYPHENOL UNLABELED (150-76-5)				
No	No	No	No	

ACRYLIC ACID (13C3, 99%) (95387-98-7)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

4-METHOXYPHENOL UNLABELED (150-76-5)				
State or local regulations				
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				

ACRYLIC ACID (13C3, 99%) (95387-98-7)				
State or local regulations				
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				

SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Sens. 1	Skin sensitization, Category 1
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
R10	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R35	Causes severe burns
R36	Irritating to eyes
R43	May cause sensitization by skin contact
R50	Very toxic to aquatic organisms
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
C	Corrosive
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

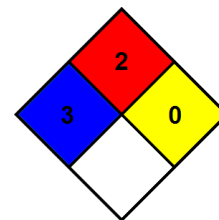
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NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 2 Moderate Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product