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# **MATERIAL SAFETY DATA SHEET**

Version:01

PRODUCT NAME: ACRYLIC ACID CAS Number: 79-10-7

1. IDENTIFICATION:

**Product Code** : 92038, 98337

**Company Name** ADVENT CHEMBIO PRIVATE LIMITED

W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, **Address** 

NAVI MUMBAI - 400 701.

sales@adventchembio.com E-mail

WEBSITE www.adventchembio.com

**Company Phone Number** : 022-27690837

#### 2. HAZARDS IDENTIFICATION:

Hazard classification

**Physical hazards** 

Flammable liquids : Category 3

**Health hazards** 

Acute toxicity, Oral : Category 4

Acute toxicity, Inhalation : Category 4

Acute toxicity, Dermal : Category 4

Skin corrosion : Sub-category 1A

Serious eye damage Category 1

Specific target organ

toxicity - Single exposure, : Category 3

Oral

Short-term (acute) aquatic

hazard

: Category 1

Long-term (chronic) aquatic

hazard

Category 2

**Labels elements** 

Hazard symbol

Signal word : Danger

**Hazard statement** Highly flammable liquid and vapor.

Harmful if swallowed, in contact with skin or if inhaled.

: Causes severe skin burns and eye damage.

May cause respiratory irritation.

Very toxic to aquatic life with long lasting effects.



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**Precautionary statement** 

Prevention : Obtain special instructions before use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

IF exposed or concerned: Get medical advice/ attention. Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are Storage

opened must be carefully resealed and kept upright to prevent leakage.

Disposal Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Other hazards which do not :

This substance/mixture contains no components considered to be either persistent, result in GHS classification bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

#### **COMPOSITION/ INFORMATION ON INGRADIENTS:**

Ingredient	CAS Number	Percent	Hazardous
Acrylic Acid	79-10-7	NLT 98.0%	Yes

## **FIRST AID MEASURES:**

**General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Call a physician or poison control center immediately. Rinse mouth. Do NOT induce Ingestion

vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

Inhalation provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact Eye contact

lenses. Get medical attention.

Most important symptoms/effects, acute

The most important known symptoms and effects are described in the labelling (see section

and delayed

2.0)



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Indication of immediate medical attention and special treatment needed

: No data available.

#### FIRE FIGHTING MEASURES:

General information : Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

media

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance

to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in

flammability hazard. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special firefighting procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

Special protective

equipment for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### **ACCIDENTAL RELEASE MEASURES:**

Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures** 

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental precautions** 

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

#### **HANDLING AND STORAGE:**

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective



Conditions for safe storage,

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gloves/protective clothing/eye

Protection / face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling,

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:

dispensing, and disposal of flammable liquids.

#### 8. EXPOSURE CONTROLS PERSONAL PROTECTION:

**Control parameters** 

Hygiene measures

including any

incompatibilities

Appropriate engineering

controls : No data available

Individual protection measures, such as personal protective equipment

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust

General information ventilation, or other engineering controls to maintain airborne levels below recommended

exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work

area. Use explosion-proof ventilation equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles).

**Hand protection** : Chemical resistant gloves.

Other . Wear suitable protective clothing.

**Respiratory protection** In case of inadequate ventilation use suitable respirator. Chemical

Respirator with organic vapor cartridge.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants. Provide eyewash station and safety shower.

Avoid contact with eyes, skin, and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance** : Clear, colorless liquid.

**Odor** : No data available.

**Solubility** : Miscible in water.

Formula :  $C_3H_4O_2$ 

Molecular Weight : 72.06 g/mol

Specific Gravity : 1.048- 1.051 g/cm3 at 20°C

**pH** : No data available.



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% Volatiles by volume @

21C (70F) : No data available.

Boiling Point: 139 °C - lit.Melting Point: 13 °C - lit.Flash Point: 48,5 °C

Vapor Density (Air=1) : No data available.
Vapor Pressure (mm Hg) : 5,29 hPa at 25 °C

Evaporation Rate (BuAc=1) : No data available.

#### **10. STABILITY AND REACTIVITY:**

**Reactivity**: Vapor/air-mixtures are explosive at intense warming.

Chemical stability : Material is stable under ambient conditions...

Possibility of hazardous

Reacts violently in contact with acids, amines, driers, polymerization accelerators and easily

reactions oxidized materials. Polymerization can occur.

Conditions to avoid : Heat, sparks, flames. Sunlight.

**Incompatible materials** : Copper, Nickel, Mild steel, Zinc.

Hazardous decomposition

products : In the event of fire: see section 5

products

## 11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : No data available.

Inhalation : No data available.

Skin contact : Causes severe burns.

Eye contact : Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 Rat - male - 1.000 - < 2.000 mg/kg.

Dermal Product : LD 50 Rabbit - male - 1.000 mg/kg.

Inhalation Product LC 50 Rat - 4 h - 3,6 mg/l – vapor.

Repeated dose toxicity

Product : No data available.

Skin corrosion/irritation

: Causes severe burns.

Product



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Serious eye damage/eye

irritation Product

: Causes serious eye damage.

Respiratory or skin

sensitization Product

Not a skin sensitizer.

**Carcinogenicity Product** 

: This substance has no evidence of carcinogenic properties

IARC Monographs on the

**Evaluation of Carcinogenic** 

: No carcinogenic components identified.

**Risks to Humans** 

**US. National Toxicology** 

Program (NTP) Report on

: No carcinogenic components identified.

Carcinogens

**US. OSHA Specifically** 

Regulated Substances (29

CFR 1910.1001-1050 Germ cell mutagenicity : No carcinogenic components identified.

In vitro Product : No data available.

Reproductive toxicity

**Product** 

No components toxic to reproduction.

Specific target organ

toxicity - single exposure

Product

: May cause respiratory irritation.

Specific target organ

toxicity - repeated

exposure Product

No data available.

Aspiration hazard Product

spiration nazard Product : No data available.

Other effects : No data available.

# 12. ECOLOGICAL INFORMATION:

**Ecotoxicity** 

Acute hazards to the aquatic environment

Fish Product : LC50 - Oncorhynchus mykiss (rainbow trout) - 27 mg/l

**Aquatic invertebrates** 

Product

: EC50 - Daphnia magna (Water flea) - 95 mg/l

Toxicity to algae : IC50 - Desmodesmus subspicatus (green algae) - 0,13 mg/l

Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates

**Product** 

No data available.

**Toxicity to Aquatic Plants** 

Product:

: No data available.



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PRODUCT NAME: ACRYLIC ACID

Persistence and degradability

**Biodegradation Product** : 81% - Readily biodegradable.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

**Bioconcentration factor** 

(BCF) Product

No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

: No data available.

**Product** 

Mobility in soil : No data available.

Other adverse effects

: Neutralise before sewage disposal. Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATION:

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container

is emptied.

### 14. TRANSPORT INFORMATION:

DOT	UN No. UN 2218	UN proper shipping name Acrylic Acid	Hazard Class(es) 8 (3)	Packaging group II	Marine Pollutant Yes
IMDG	UN 2218	Acrylic Acid	8 (3)	II	Yes
IATA	UN 2218	Acrylic Acid	8 (3)	II	No

## 15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



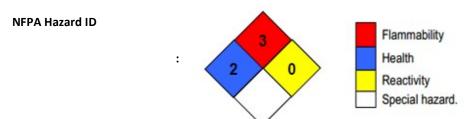
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#### **16. OTHER INFORMATION:**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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Version : 01

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