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Acetic Acid CAS No 64-19-7

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers			
	Product name	: Acetic Acid		
	CAS-No.	: 64-19-7		
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	: Laboratory chemicals, Industrial & for professional use only.		
1.3	Details of the supplier of Company	the safety data she : Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA		
	Telephone	: +91 11 49404040		
	Email	: care@cdhfinechemical.com		
1.4	Emergencytelephonenumb			
	Emergency Phone # :	+91 11 49404040 (9:00am - 6:00 pm) [Office hours]		
SECT	ION 2: Hazards identification	n		
2.1		Classification of the substance or mixture		
	Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 3), H226			
	Skin corrosion (Category1A), H314			
	For the full text of the H-State	ments mentioned in this Section, see Section 16.		
2.2	Label elements			
	Labelling according Regulat Pictogram	tion (EC) No 1272/2008		
		S02HD GHSGS		
	Signal word Hazard statement(s)	Danger		
	H226	Flammable liquid and vapour.		
	H314	Causes severe skin burns and eye damage.		
	Precautionarystatement(s) P210	Keep awayfrom heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
	P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.		
	P280	Wear protective gloves/ protective clothing/ eye protection/ face		

P303 + P361 + P353	protection. IF ON SKIN (or hair): Take off immediatelyall contaminatedclothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378	In case of fire: Use dry powder or dry sand to extinguish.
SupplementalHazard Statements	none

2.3 Other hazard

3.1

This substance/mixturecontains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Substances		
Synonyms	:	Glacial acetic acid
Formula	:	СНЗСООН
Molecular weight	:	60.05 g/mol
CAS-No.	:	64-19-7
EC-No.		200-580-7
Index-No.	÷	607-002-00-6
Registration number	:	01-2119475328-30-XXXX

Hazardous ingredients Component	according to Regulation (EC	No 1272/20 Classification	Concentration
Acetic aci CAS-No. EC-No. Index-No.	64-19-7 200-580-7 607-002-00-6	Flam. Liq. 3; Skin Corr. 1A; H226, H314 Concentration limits:	<= 100 %
		>= 90 %: Skin Corr. 1A, H314; 25 - < 90 %: Skin Corr. 1B, H314; 10 - < 25 %: Skin Irrit. 2, H315; 10 - < 25 %: Eye Irrit. 2, H319;	

For the full text of the H-Statementsmentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safetydata sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughlywith plenty of water for at least 15 minutes and consult a physician.

If swallowed

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 delay The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment neede No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistantfoam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixtu Carbon oxides
- 5.3 Advice for firefighter Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedure Use personal protective equipment. Avoid breathing vapours, 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.

For personal protection see section 8.

6.2 Environmental precaution

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).\'20 Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other section

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handlin Avoid inhalation of vapour or mist. 7.1

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2

Conditions for safe storage, including any incompatibilitie Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Moisture sensitive.

Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL)

	· · ·		
Application Area	Exposure routes	Health effect	Value
Workers Workers Consumers Consumers	Inhalation Inhalation Skin contact Inhalation Inhalation	Acute local effects Long-term local effects Long-term local effects Acute local effects Long-term local effects	25 mg/m3 25 mg/m3 10mg/kg BW/d 25 mg/m3 25 mg/m3
Predicted No Effe	ect Concentration	(PNEC)	
Compartment		Value	

Companinent	value
Soil	0.478 mg/kg
Marine water	0.3058 mg/l
Fresh water	3.058 mg/l
Marine sediment	1.136 mg/kg
Fresh water sediment	11.36 mg/kg
Sewage treatment plant	85 mg/l
Aquatic intermittent release	30.58 mg/l

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Tightlyfitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) Appearance Form: liquid
- Colour: colourless
- b) Odour pungent

c)	Odour Threshold	No data available		
d)	рН	2.4 at 60.05 g/l		
e)	Melting point/freezing point	Melting point/range: 16.2 °C - lit.		
f)	Initial boiling point and boiling range	117 - 118 °C - lit.		
g)	Flash point	40.0 °C - closed cup		
h)	Evaporation rate	No data available		
i)	Flammability(solid, gas)	No data available		
j)	Upper/lower flammabilityor explosive limits	Upper explosion limit: 19.9 %(V) Lower explosion limit: 4 %(V)		
k)	Vapour pressure	55.0 mmHg at 50.0 °C 11.4 mmHg at 20.0 °C		
I)	Vapour density	No data available		
m)	Relative density	1.049 g/cm3 at 25 °C		
n)	Water solubility	completelymiscible		
0)	Partition coefficient: n- octanol/water	log Pow: -0.17		
p)	Auto-ignition temperature	485.0 °C		
q)	Decomposition temperature	No data available		
r)	Viscosity	No data available		
s)	Explosive properties	No data available		
t)	Oxidizing properties	No data available		
Otl	ner safety information	28.8 mN/m at 10.0 °C		

Surface tension

SECTION 10: Stability and reactivity

No data available

9.2

- **10.2 Chemical stability** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available
- **10.4 Conditions to avoid** Heat, flames and sparks.
- **10.5** Incompatible materials Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols, Nitric acid

10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decompositionproducts - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 3,310 mg/kg(Acetic acid) LC50 Inhalation - Mouse - 1 h - 5620 ppm(Acetic acid) Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctiveirritation. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other.Blood:Other changes. LC50 Inhalation - Rat - 4 h - 11.4 mg/l(Acetic acid)

LD50 Dermal - Rabbit - 1,112 mg/kg(Acetic acid)

Skin corrosion/irritation

Skin - Rabbit(Acetic acid)

Result: Causes severe burns.

Serious eye damage/eye irritation

Eyes - Rabbit(Acetic acid)

Result: Corrosive to eyes

Respiratory or skin sensitisation

No data available(Acetic acid)

Germ cell mutagenicity

No data available(Acetic acid)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(Acetic acid)

Specific target organ toxicity - single exposure

No data available(Acetic acid)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Acetic acid)

Additional Information

RTECS: AF1225000

Material is extremelydestructive to tissue of the mucous membranes and upper respiratorytract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonaryedema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Ingestion or inhalation of concentrated acetic acid causes damage to tissues of the respiratoryand digestive tracts. Symptoms include: hematemesis, bloody diarrhea, edema and/or perforation of the esophagus and pylorus, pancreatitis, hematuria, anuria, uremia, albuminuria, hemolysis, convulsions, bronchitis, pulmonaryedema, pneumonia, cardiovascular collapse, shock, and death. Direct contact or exposure to high concentrations of vapor with skin or eyes can cause: erythema, blisters, tissue destruction with slow healing, skin blackening, hyperkeratosis, fissures, corneal erosion, opacification, iritis, conjunctivitis, and possible blindness., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughlyinvestigated.(Aceticacid)

SECTION 12: Ecological information

12.1 Toxicity

Toxicityto fish	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 1,000 mg/l $$ - 96 h(Acetic acid)
	(OECD Test Guideline 203)
Toxicityto daphnia and other aquatic	EC50 - Daphnia magna (Water flea) - > 300.82 mg/l - 48 h(Acetic acid) (OECD Test Guideline 202)
invertebrates	

12.2 Persistence and degradability

reisistence anu	
Biodegradability	aerobic - Exposure time 30 d(Acetic acid)
,	Result: 99 % - Readily biodegradable
	Remarks: Expected to be biodegradable

BiochemicalOxygen 880 mg/g(Acetic acid) Demand (BOD)

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data available(Acetic acid)

12.5 Results of PBT and vPvB assessment

This substance/mixturecontains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological No data available information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1		IMDG: 2789	IATA: 2789
	ADR/RID: 2789	INDG. 2769	IATA. 2709
14.2	UN propershipping nameADR/RID:ACETIC ACID, GLACIALIMDG:ACETIC ACID, GLACIALIATA:Acetic acid, glacial		
14.3	Transport hazard class(es)		
	ADR/RID: 8 (3)	IMDG: 8 (3)	IATA: 8 (3)
14.4	Packaging group		
	ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards		
	ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user		
	No data available		

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

A Chemical Safety Assessmenthas been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
11045	Courses alvia invitation

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Further information

The above informationis believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.