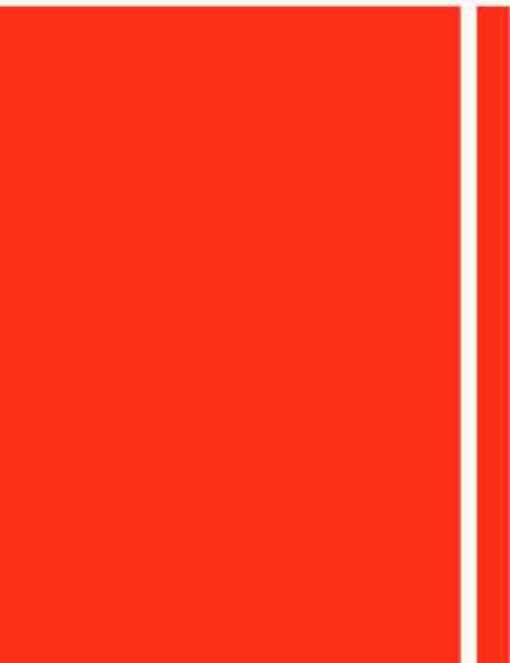




MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACETO ORCEIN

Product Code: 00036

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACETO ORCEIN

CAS-No.: NA

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

1.1. Product identifier

Product form : Mixture
Trade name : Aceto Orcein

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company : Chemnovo Synthesis Pvt Ltd.
N-226 Near Kumbhavali Naka
Tarapur MIDC, Boisar-401 506
Palghar, Maharashtra
Telephone : +91 7400096089
Email: export@chemnovo.in

1.4. Emergency telephone number

Emergency number : + 91 7400096089 (9:00am – 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226

Skin corrosion/irritation, Category 1, Sub-Category 1A H314

Full text of classification categories and H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes severe skin burns and eye damage.

2.2. Label elements

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

Hazard pictograms (CLP) :



MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACETO ORCEIN

CAS-No.: NA

		GHS02	GHS05
Signal word (CLP)	:	Danger	
Contains	:	ACETIC ACID GLACIAL	
Hazard statements (CLP)	:	H226 – Flammable liquid and vapour. H314 – Causes severe skin burns and eye damage.	
Precautionary statements (CLP)	:	P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 – Wear protective clothing, eye protection, face protection, protective gloves. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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. P310 – Immediately call a doctor	

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	50 – 60	Not classified
Acetic Acid Glacial	CAS-No.: 64-19-7 EC-No.: 200-580-7	40 – 50	Flam. Liq. 3, H226 Skin Corr. 1A, H314
Orcein	CAS-No.: 1400-62-0	0.5 – 1	Eye Irrit. 2, H319

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	:	Call a physician immediately.
First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	:	Immediately call a POISON CENTER/doctor. Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	:	Immediately call a POISON CENTER/doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and

First-aid measures after ingestion : easy to do. Continue rinsing. Call a physician immediately.
Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects : Causes severe skin burns and eye damage.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media : Do not use extinguishing media containing water

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighter

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection"
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACETO ORCEIN

CAS-No.: NA

Methods for cleaning up : Take up liquid spill into absorbent material. On land, sweep or shovel into suitable containers. Collect spillage. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear appropriate mask

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACETO ORCEIN

CAS-No.: NA

Physical state	:	Liquid
Appearance	:	Clear liquid.
Colour	:	Dark Brown red.
Odour	:	vinegar odour.
Odour threshold	:	1.018 ppm
pH	:	Acidic
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	16.6 °C
Boiling point	:	100 °C
Flash point	:	39 °C
Auto-ignition temperature	:	427 °C
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Not applicable
Vapour pressure	:	2.3 kPa at 20°C
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1.03 g/cm ³
Solubility	:	Water: Miscible in water
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Lower explosive limit (LEL)	:	5.4 vol %
Upper explosive limit (UEL)	:	16 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours. Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use

10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Sparks. Avoid contact with hot surfaces. Heat. No flames, no sparks.
Eliminate all sources of ignition

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information
11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified
Skin corrosion/irritation	:	Causes severe skin burns.
pH	:	Acidic

ACETIC ACID GLACIAL (64-19-7)	
pH	2.4 (1.0 M solution)
Serious eye damage/irritation	: Assumed to cause serious eye damage
pH	: Acidic

ACETIC ACID GLACIAL (64-19-7)	
pH	2.4 (1.0 M solution)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

ACETIC ACID GLACIAL (64-19-7)	
Viscosity, kinematic	1.163 mm ² /s

SECTION 12: Ecological information
12.1. Toxicity

Ecology – general	:	Before neutralisation, the product may represent a danger to aquatic organisms
-------------------	---	--

12.2. Persistence and degradability

ACETIC ACID GLACIAL (64-19-7)	
Persistence and degradability	Not established

12.3. Bioaccumulative potential

ACETIC ACID GLACIAL (64-19-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.17 at 25°C – Bioaccumulation is not expected
Bioaccumulative potential	Not established

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste treatment methods	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	:	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non hazardous waste.
Additional information	:	Flammable vapours may accumulate in the container.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	:	1760
UN-No. (IMDG)	:	1760
UN-No.(IATA)	:	1760
UN-No.(AND)	:	1760
UN-No. (RID)	:	1760

14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (IMDG)	:	CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (IATA)	:	Corrosive liquid, n.o.s.
Proper Shipping Name (ADN)	:	CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (RID)	:	CORROSIVE LIQUID, N.O.S.
Transport document description (ADR) :		UN 1760 CORROSIVE LIQUID, N.O.S. (ACETO ORCEIN), 8, II, (E)
Transport document description (IMDG)	:	UN 1760 CORROSIVE LIQUID, N.O.S. (ACETO ORCEIN), 8, II
Transport document description (IATA) :		UN 1760 Corrosive liquid, n.o.s. (ACETO ORCEIN), 8, II
Transport document description (ADN) :		UN 1760 CORROSIVE LIQUID, N.O.S. (ACETO ORCEIN), 8, II
Transport document description (RID) :		UN 1760 CORROSIVE LIQUID, N.O.S. (ACETO ORCEIN), 8, II

14.3. Transport hazard class(es)

ADR		
Transport hazard class(es) (ADR)	:	8
Danger labels (ADR)	:	8

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACETO ORCEIN

CAS-No.: NA

Chemnovo

DRIVEN BY CHEMISTRY, DEFINED BY PRECISION

:



IMDG

Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8

:



IATA

Transport hazard class(es) (IATA) : 8

Hazard labels (IATA) : 8

:



AND

Transport hazard class(es) (ADN) : 8

Danger labels (AND) : 8

:



MATERIAL SAFETY DATA SHEET (SDS/MSDS)**ACETO ORCEIN****CAS-No.: NA**

RID

Transport hazard class(es) (RID) : 8

Danger labels (RID) : 8

**14.4. Packing group**

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

– Overland transport

Classification code (ADR) : C9

Special provisions (ADR) : 274

Limited quantities (ADR) : 1I

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : Mp15

Portable tank and bulk container

instructions (ADR) : T11

Portable tank and bulk container

special provisions (ADR) : TP2, Tp27

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number : 80

(Kemler No.)

Orange plates

80

1760

MATERIAL SAFETY DATA SHEET (SDS/MSDS)**ACETO ORCEIN****CAS-No.: NA**

Tunnel restriction code (ADR)	:	E
EAC code	:	2X
- Transport by sea		
Special provisions (IMDG)	:	274
Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T11
Tank special provisions (IMDG)	:	TP2, Tp27
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B
Stowage category (IMDG)	:	B
Stowage and handling (IMDG)	:	Sw2
Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes.
MFAG-No	:	154
- Air transport		
PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y840
PCA limited quantity max net quantity (IATA)	:	0.5L
PCA packing instructions (IATA)	:	851
PCA max net quantity (IATA)	:	1L
CAO packing instructions (IATA)	:	855
CAO max net quantity (IATA)	:	30L
Special provision (IATA)	:	A3, A803
ERG code (IATA)	:	8L
- Inland waterway transport		
Classification code (ADN)	:	C9
Special provisions (ADN)	:	274
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E2
Carriage permitted (AND)	:	T
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0
- Rail transport		
Classification code (RID)	:	C9
Special provisions (RID)	:	274
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001, IBC02
Mixed packing provisions (RID)	:	Mp15
Portable tank and bulk container instructions (RID)	:	T11

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACETO ORCEIN

CAS-No.: NA

Portable tank and bulk container special provisions (RID)	:	TP2, Tp27
Tank codes for RID tanks (RID)	:	L4BN
Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	Ce6
Hazard identification number (RID)	:	80

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Borstvoeding

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Ontwikkeling

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

MATERIAL SAFETY DATA SHEET (SDS/MSDS)**ACETO ORCEIN****CAS-No.: NA****Full text of H- and EUH-phrases:**

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A

Further information

The above information is 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. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.chemnovo.in for additional terms and conditions of sale.

Version: 2.0
Revision Date: 09 December 2025