

2-Octanol

Version: V2.0.0.1

Report No.: THSD25121980036EN

Creation Date: 2025/12/23

Revision Date: -

***Prepared according to UN GHS (the 8th revised edition)**

1 Identification of the chemical and supplier

Product identifier

Product Name	2-Octanol
Molecular Formula	-
REACH Registration Number	-
UFI	Not applicable

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

Relevant identified uses	Key raw materials for plasticizer production; synthesis of surfactants; solvents and extractants; fragrance and pharmaceutical intermediates.
Uses advised against	No special instructions.

Details of the supplier of the Safety Data Sheet

Name of the company	Jining Wansheng Environmental Protection Materials Co., Ltd.
Address of the company	The seat of the Yinsi Town Government in Wenshang County, Jining City (Chemical Industrial Park)
Post code	—
Telephone number	17860188618
Fax number	0537-2334332
E-mail address	candice@changxing-plastic.com

Emergency telephone number


Emergency telephone number	15054870715
Opening hours	24h

2 Hazards identification

Hazard classification according to GHS

Flammable liquids	Category 4
Eye damage/eye irritation	Category 1
Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard	Category 3

Label elements

Hazard pictograms	
-------------------	---

Signal word	Danger
-------------	---------------

Hazard statements

H227	Combustible liquid
H318	Causes serious eye damage
H402	Harmful to aquatic life

Precautionary statements

◆ Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection.

◆ Response

P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P305+P351+P338	In case of eye contact, rinse carefully with water for a few minutes. If you are wearing contact lenses and are easy to remove, remove the contact lenses and continue rinsing.

◆ Storage

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

◆ Disposal

P501	Dispose of contents/container in accordance with local/regional/national/ international regulations..
------	---

3 Composition/information on ingredients

Substance/mixture

Substance

Component	Weight % content (or range)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific Conc. Limits, M-factors
2-Octanol CAS: 123-96-6 EC: 204-667-0	>99.5	Not classified	-

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
Ingestion	Refer for medical attention.
Inhalation	Fresh air, rest.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
---	--

Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures**Extinguishing media**

Suitable extinguishing media	Carbon dioxide Foam Dry powder.
Unsuitable extinguishing media	There is no restriction on the type of extinguishing agent used.

Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	May expansion or decompose explosively when heated or involved in fire.
3	Carbon oxides

Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing agent from contaminating surface water or the ground water system.

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

1	Ensure adequate ventilation. Remove all ignition sources. Take anti-static measures.
2	Quickly evacuate personnel to a safe area, away from the spill area and upwind.
3	Use personal protective equipment and do not breathe dust/fume.

Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Isolate the leaked contaminated area and restrict access.

7 Handling and storage**Precautions for safe handling**

◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.

3	Avoid contact with skin and eyes.
◆ Measures to prevent fire	
1	Keep away from heat/sparks/open flames/ hot surfaces.
◆ Measures to prevent aerosol and dust generation	
1	Avoid formation of dust and aerosols.
2	Provide suitable exhaust equipment where dust is generated.
◆ Advice on general occupational hygiene	
1	Wash hands and face after using of the substances.
2	Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

Specific end use(s)

1	In addition to use mentioned in the first parts, unforeseen other specific end uses.
---	--

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
2-Octanol	The Netherlands	-	-	-	-
	Poland	-	-	-	-
	Latvia	-	-	-	-
	Germany (DFG)	-	-	-	-

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300.1~GBZ/T 300.160-2017; GBZ/T 300.161~GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

◆ Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects(local)	Acute effects(systemic)	Chronic effects(local)	Chronic effects(systemic)
2-Octanol	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

◆ Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	No information available
--	--------------------------

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Set up emergency exit and necessary risk-elimination area.
4	Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal dust proof gas mask.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

Physical and chemical properties

Physical state	Oily liquid
Colour	Colorless and transparent
Odor	Special fragrant smell
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	No information available
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	0.82 g/cm ³
Solubility	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Particle characteristics	No information available
--------------------------	--------------------------

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	Strong oxidizing agents.
Conditions to avoid	Strong heating.
Incompatible materials	No information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
2-Octanol	Rat-2,000 mg/kg	No information available	No information available

Carcinogenicity

Component	IARC	NTP
2-Octanol	Not list	Not list

Endocrine disrupting properties

Endocrine disrupting properties	No information available
---------------------------------	--------------------------

Others

2-Octanol	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Risk of serious damage to eyes
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
2-Octanol	LC ₅₀ : 75mg/L (96h)	EC ₅₀ : 30mg/L (48h)	ErC ₅₀ : 48mg/L (72h)

Chronic aquatic toxicity

Chronic aquatic toxicity	No information available
--------------------------	--------------------------

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment (according to (EC) No 1907/2006)
2-Octanol	No information available

Endocrine disrupting properties

Endocrine disrupting properties	No information available
---------------------------------	--------------------------

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label	Not applicable
--------------------	----------------

IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
-----------	--

ICAO/IATA-DG

ICAO/IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
---------------	--

UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
--------	--

15 Regulatory information

International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIICS	ENCS
2-Octanol	x	x	x	x	x	x	x	x	x

[EINECS] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

[IECSC] China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals

[PICCS]	Philippines Inventory of Chemicals and Chemical Substances
[KECI]	Korea Existing Chemicals Inventory
[AIIC]	Australia. Inventory of Industrial Chemicals (AIIC)

Note:

- “√” Indicates that the substance included in the regulations.
 “x” No data or not included in the regulations.
 ”

16 Other information

Information on revision

Creation Date	2025/12/23
Revision Date	-
Reason for revision	-



Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/substancesearch/index.action>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG	International Maritime Dangerous Goods
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC _x	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P _{ow}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.