polyvinylpyrrolidone

MSDS / SDS

Part 1: Chemicals

on-product information	: Polyvinylpyrrolidone
Chinesename	: Polyvinylpyrrolidone：
Englishname	: CB4209342
CBnumber	: 9003-39-8
CASnumber	: 1312995182-4
EINECSNumber	: Povidone, polyvinyl pyrrolidone
Chemicalalias	

Part 2: Overview of the hazards

The GHS hazard category

Non-hazardous substance or mixture.

GHS tag elements, including precautionary instructions

figurative graph

Physical and chemical hazards

There is no physical or chemical risk to the current information.

health hazard

At present, there is no health hazard.

environment hazards

At present, information, there is no environmental harm.

Other hazards

-not have

Part 3: Composition / composition information

matter

Chinese name	: Polyvinylpyrrolidone
Chemical alias	: Povidone, polyvinyl pyrrolidone

CAS number	：9003-39-8
EC number	： 1312995182-4
molecular formula	：CH4
formula weight	： 16.0425

Part 4: First aid measures

Description of the necessary first-aid measures

inhalation

If inhaled, move the patient to fresh air. If breathing stops, perform artificial respiration.

skin exposure

Rlush with soap and plenty of water.

eye contact

Wash the eyes with water with caution.

ingestion

Do not feed the unconscious person with anything. Wash your mouth with water.

Most important symptoms and health effects

The most important known symptoms and effects are described in the labeling (see Section 2.2) and / or section 11

Instructions and instructions for prompt medical treatment and special treatment required

No data

Special tips for the doctor

No data

Part 5: Fire protection measures

Fire fighting medium

Fire extinguishing methods and fire extinguishing agent

Put out the fire with water mist, alcohol-resistant foam, dry powder or carbon dioxide.

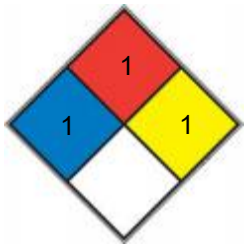
A particular hazard arising from this substance or mixture

Carbon oxides, and nitrogen oxides

Fire prevention and extinguishing precautions and protection measures

If necessary, wear a self-contained breathing apparatus for fire-fighting operations.

NFPA 704



Health hazards 1 substantial exposure may cause discomfort or may only have minor sexual harm.

Flammability 1 requires preheat to ignite.

Reactivity 1 is normally stable but may become unstable under heating conditions or can react with water.

Special harm

Part 6: Emergency treatment of leakage

Personnel protective measures, protective equipment and emergency response procedures

Avoid dust generation. Avoid inhaling vapors, aerosol, or gases. See part 8 for personal protection.

Environmental protection measures

No special environmental prevention requirements.

The reception and removal methods of the leaking chemicals and the disposal materials used

Sweep off and shovel off. Place in a suitable enclosed container for disposal.

Refer to other sections

See Section 13 for the discard processing.

Part 7: Operational disposal and storage

Notes for safe operation

Where dust is generated, provide suitable exhaust equipment. For precautions, see Section 2.2.

Conditions for safe storage, including any incompatibilities

Store them in a cool place. Keep the container closed and store it in a dry and ventilated place.

Part 8: Contact control / personal protection

controlling parameter

Hazard composition and occupational exposure limits

There are no known state-prescribed exposure limits.

Exposure control

Appropriate technical controls

Routine industrial hygiene operations.

Individual protective equipment

Eye protection

Please protect your eyes with equipment tested and approved by official standards such as NIOSH (USA) or EN 166 (EU).

skin sparing

Wearing gloves and gloves must be inspected before use. Please remove the gloves (do not touch the external surface of the gloves) and avoid any skin contact with the product. Use the contaminated gloves carefully according to relevant laws and regulations and effective laboratory regulations and procedures. Please clean and blow dry your hands

The selected protective gloves selected must comply with the specifications given by Regulation (EU) 2016 / 425 and the EN 374 standard derived from it. Full contact

Material: Nitrile rubber

The minimum layer thickness is 0.11 mm

Solvent penetration time: 480 min

Test of the substance Dermatril?(KCL 740 / Aldrich Z677272, specification M)

Splash protection

Material: Nitrile rubber

The minimum layer thickness is 0.11 mm

Solvent penetration time: 480 min

Test of the substance Dermatril?(KCL 740 / Aldrich Z677272, specification M)

Data source KCL GmbH, D-36124 Eichenzell, phone number + 49 (0) 6659 87300, e-mail sales@k c l. De, test method EN 374

If applied in solvent or mixed with other substances or under different conditions specified in EN 374, contact the supplier of the EC approved gloves. This recommendation is only recommended and must be confirmed by industrial hygiene experts familiar with the specific conditions that our clients plan to use. This should not be interpreted as providing for the approval of any particular usage method.

Body protection

Body protection is selected based on the type of hazardous substance, concentration and quantity, and a specific workplace., The type of protective equipment must be selected according to the concentration and quantity of hazardous substances in a particular workplace.

Respiratory system protection

No breath protection is required. For dust damage, use N 95 (US) or P 1 (EN 143) dust masks. Use a respirator and parts tested and passed government standards such as NIOSH (US) or CEN (EU).

Control of the environmental exposure

No special environmental prevention requirements.

Part 9: Physicochemical properties

Information on the basic

Shape: Powder color: light brown

physicochemical properties

Appearance and traits	
smell	No data
threshold odour number	No data
pH price	And 5.0 – 8 at 10g / l at 20°C

Melting point / setting point	No data
Initial boiling point and the boiling range	No data
flash point	No data
h) evaporation rate	No data
I) Flammability (solid, gas)	No data
J) a high / low combustion or explosive limit	No data
k) vapour pressure	No data
l) vapour density	No data
M) density / relative density	No data
n) water-solubility	No data
O) n-octanol / water distribution coefficient	No data
p) autogenous ignition temperature	No data
q) decomposition temperature	No data
r) viscosity	No data
S) The explosive characteristics	No data
t) oxidability	No data

Other security information

No data

Part 10: Stability and Reactivity

stability

Stable under the recommended storage conditions.

Dangerous reaction

No data

Conditions that should be avoided

No data

Ban the match

Strong oxidant

Hazardous decomposition product

In the case of fire, it will decompose to produce harmful substances.-Carbon oxide, other decomposition products of nitrogen oxide-no data data

When fire: see Section 5 Fire Fighting Measures.

Part 11: Toxicology information

genotoxicity

Specific target organ system toxicity (primary contact)

No data

LD 50 Oral-rat-100,000 mg / kg Note: diarrhea

Specific target organ system toxicity (repeated exposure)

No data

Skin- -Rabbit

Results: No skin irritation

inhalation hazard

No data

Eyes- -Rabbit

Results: No eye irritation

Breathing or skin allergy

Melting point / setting point	No data

Will not appear

Germ-cell mutagenicity

No data

carcinogenicity

This product is not, or does not contain, components listed as carcinogens by IARC, ACGIH, EPA, and NTP

IARC : 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1-Ethenyl-2pyrrolidinone homopolymer)

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

IARC .

Additional instructions

Register of chemical substance toxicity effects: TR 8370000

Unexcreted particles may be phagocytosed by cells of the reticuloendothelial system and deposited in the storage sites of the liver, spleen, lung and bone marrow, leading to storage disease. Symptoms and severity depend on the site of particle deposition. Storage disease does not necessarily cause pathological changes, but in some cases verification and granulomas occur.
To the best of our knowledge, this chemical, physical and toxic properties have not been fully studied.

Part 12: Ecological information

Ecological toxicity

No data

Persistence and degradability

No data

Biostock potential

No data

Mobility in the soil

No data

Evaluation of the results for the PBT and vPvB

The PBT / vPvB assessment is not available as the chemical safety assessment is not required / not performed

Other environmental harmful effects

No data

Part 13: Waste disposal

Waste disposal methods

product

Leave the remaining and non-recyclable solutions to licensed companies for disposal.

Pollution packaging

Dispose as an unused product.

Part 14: Transportation information

United Nations number / UN number

European RC / ADR / RID: -International Marine / IMDG: -International RC / IATA-DGR: -

UN Transport Name / UN proper shipping name

European land transport dangerous regulation: non-dangerous goods
ADR / RID: Non-dangerous Goods International Maritime risk regulations: Non-dangerous goods
IMDG : Not dangerous goods
International air transport risk regulations: non-dangerous goods
IATA -DGR : Not dangerous goods

Transportation Hazard Category / Transport hazard class (es)

European RC / ADR / RID: -International Marine / IMDG: -International RC / IATA-DGR: -

Package group / Packaging group

European RC / ADR / RID: -International Marine / IMDG: -International RC / IATA-DGR: -

Environmental hazards / Environmental hazards

ADR / RID European Agency for Road Transport / European Agency for Rail Transport: No

International Maritime Dangerous Goods Rules (IMDG) Marine pollutants (Yes / No): No

International Air Transport Risk Regulation: No

Special precautions / Special precautions for user

Please select the appropriate transport means and the corresponding transport and storage conditions according to the nature of the chemical. The means of transport shall be equipped with corresponding varieties and quantity of fire fighting materials and leakage emergency treatment equipment. If you choose road transportation, please follow the prescribed route.

Proer / Incompatible materials

Strong oxidant

Part 15: Regulatory information

Rules / regulations specifically governing the safety, health and environment of this substance or mix

Law of the Occupational Disease Prevention Law of the People's Republic of China

Classification list of occupational-disease-inductive factors: not included

Regulations on the Safety Management of Hazardous Chemicals

List of Dangerous Goods and Chemicals (2018): not included

Measures for the environmental management and registration of hazardous chemicals

List of Hazardous Chemicals for Key Environmental Management (2014): Not included

Regulations on the administration of narcotic drugs and psychotropic drugs

List of narcotic drugs (2013): not included in the list of psychotropic drugs (2013): not included

New measures for the environmental management of chemical substances

China's existing chemical substances list: not included

Other provisions

Please note that waste disposal should also meet local regulations.

Part 16: Other information

reference documentation

[1] International Chemicals Safety Programme: International Chemicals Safety Card (ICSC) at http: / / www.ilo.org/dyn/icsc/showcard.home 。

[2] International Agency for Research on Cancer, http: / / www.iarc.fr/。

[3] OECD Global Chemicals Information Platform, available at: http: / / www.echemportal.org/echemportal/index?pageID=0&request_loca l e =en 。

[4] CAMEO Chemical Database http: / / cameochemicals.noaa.gov/search/simple 。

[5] American Library of Medicine: Chemical Identification Database at http: / / chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp 。

[6] U. S. Environmental Protection Agency: Integrated Risk Information System at http: / / cfpub.epa.gov/iris/。

[7] U. S. Department of Transportation: Emergency Response Guide at http: / / www.phmsa.dot.gov/hazmat/library/erg 。

[8] German GESTIS-Database of Hazardous Substances at http: / / gestis-en.itrust.de/。

[9] Sigma-Aldrich, at: https: / / www.sigmaaldrich.com/