

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/21/2024

Reviewed on 02/21/2024

## 1 Identification

- **Product identifier**
- **Trade name:** *WAKOL PU 4519 2K-PU Accelerator*
- **Application of the substance / the mixture** *Catalyst*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Loba-Wakol, LLC  
2732 Hwy 74 West  
Wadesboro, NC 28170, USA  
info@loba-wakol.com  
+1 704 527 5919*
- **Information department:** *Product safety department.*
- **Emergency telephone number:**  
*Emergency CONTACT (24-Hour-Number)  
GBK/Infotrac ID 98229: (USA domestic) 1 800 535 5053 or  
International (001) 352 323 3500*

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

*Eye Damage 1 H318 Causes serious eye damage.*

- **Label elements**
- **GHS label elements**  
*The product is classified and labeled according to the Globally Harmonized System (GHS).*
- **Hazard pictograms**



GHS05

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**  
*1,4-diazabicyclooctane*
- **Hazard statements**  
*Causes serious eye damage.*
- **Precautionary statements**  
*Wear eye protection / face protection.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Immediately call a poison center/doctor.*
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



*Health = 3  
Fire = 1  
Reactivity = 0*

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	*3	Health = *3
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

280-57-9 1,4-diazabicyclooctane >2.5–≤5%

 Flammable Solids 1, H228;  Eye Damage 1, H318;  Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315

25265-71-8 Dipropylene glycol (isomer unspecified) >5–≤10%

**4 First-aid measures**

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Clean with water and soap. If possible, also wash with polyethylene glycol 400.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

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### 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures***Ensure adequate ventilation**Wear protective equipment. Keep unprotected persons away.***· Environmental precautions:** *Do not allow product to reach sewage system or any water course.***· Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to section 13.***· Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.***· PAC-1:***280-57-9 1,4-diazabicyclooctane: 5.1 mg/m<sup>3</sup>***· PAC-2:***280-57-9 1,4-diazabicyclooctane: 56 mg/m<sup>3</sup>***· PAC-3:***280-57-9 1,4-diazabicyclooctane: 340 mg/m<sup>3</sup>*

### 7 Handling and storage

**· Handling:****· Precautions for safe handling** *Use only in well ventilated areas.***· Information about protection against explosions and fires:** *No special measures required.***· Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:** *Store only in the original receptacle.***· Information about storage in one common storage facility:** *Not required.***· Further information about storage conditions:** *Store in cool, dry conditions in well sealed receptacles.***· Specific end use(s)** *No further relevant information available.*

### 8 Exposure controls/personal protection

**· Additional information about design of technical systems:** *No further data; see section 7.***· Control parameters****· Components with limit values that require monitoring at the workplace:***The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.***· Additional information:** *The lists that were valid during the creation were used as basis.***· Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:***The usual precautionary measures for handling chemicals should be followed.**Wash hands before breaks and at the end of work.***· Breathing equipment:** *Not necessary if room is well-ventilated.*

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· **Protection of hands:**



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.35$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	Colorless
· <b>Odor:</b>	Ammonia-like
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	150 °C (302 °F)

· **Flash point:**  $>110$  °C ( $>230$  °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapor pressure:** Not determined.

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- **Density at 20 °C (68 °F):** 1 g/cm<sup>3</sup> (8.345 lbs/gal) (EN ISO 2811-1)
- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic at 20 °C (68 °F):** 850 mPas (ISO 2555)
  - Kinematic:** Not determined.
- **VOC content:** 0.00 %
- **Other information** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Reacts with strong acids and oxidizing agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**


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**25265-71-8 Dipropylene glycol (isomer unspecified)**  
 Oral LD50 >5,000 mg/kg (Rat)  
 Dermal LD50 >5,000 mg/kg (rabbit)  
 Inhalative LC50 >6 mg/l (Rat)

**280-57-9 1,4-diazabicyclooctane**  
 Oral LD50 700 mg/kg (Rat)
- **Primary irritant effect:**
- **on the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**


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 None of the ingredients is listed.

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- **NTP (National Toxicology Program)**  
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**  
None of the ingredients is listed.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:**
  - 25265-71-8 Dipropylene glycol (isomer unspecified)**  
LC50/24h >5,000 mg/l (piscarius)  
EC50/48h >100 mg/l (Daphnia magna)  
EC50/72h >100 mg/l (Scenedesmus subspicatus)  
EC10/16h >1,000 mg/l (Pseudomonas putida)
  - 280-57-9 1,4-diazabicyclooctane**  
LC50/96h >100 mg/l (Cyprinus carpio)  
EC50/48h >100 mg/l (Daphnia magna)  
EC50/72h 180 mg/l (algae)
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA**                      Void

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- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA**                      *Void*
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class**    *Void*
- **Packing group**
- **DOT, ADR, IMDG, IATA**                              *Void*
- **Environmental hazards:**                              *Not applicable.*
- **Special precautions for user**                              *Not applicable.*
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**                              *Not applicable.*
- **Transport/Additional information:**                              *Not dangerous according to the above specifications.*
- **DOT**
- **Remarks:**    *not regulated*

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- **ADR**
- **Remarks:**    *not regulated*

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- **IMDG**
- **Remarks:**    *not regulated*

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- **IATA**
- **Remarks:**    *not regulated*
- **UN "Model Regulation":**                              *Void*

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**

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- None of the ingredient is listed.*
- **Section 313 (Specific toxic chemical listings):**

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- None of the ingredients is listed.*
- **TSCA (Toxic Substances Control Act):**

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- All ingredients are listed or are not required to be listed on the TSCA inventory.*
- **Hazardous Air Pollutants**

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- None of the ingredients is listed.*
- **Proposition 65**
- **Chemicals known to cause cancer:**

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- None of the ingredients is listed.*
- **Chemicals known to cause reproductive toxicity for females:**

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- None of the ingredients is listed.*
- **Chemicals known to cause reproductive toxicity for males:**

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- None of the ingredients is listed.*
- **Chemicals known to cause developmental toxicity:**

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- None of the ingredients is listed.*
- **New Jersey Right-to-Know List:**

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- None of the ingredients is listed.*

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· **New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

· **Pennsylvania Right-to-Know List:**

25265-71-8 Dipropylene glycol (isomer unspecified)

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05

· **Signal word Danger**

· **Hazard-determining components of labeling:**

1,4-diazabicyclooctane

· **Hazard statements**

Causes serious eye damage.

· **Precautionary statements**

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

· **National regulations:**

· **VOC:**

· **VOC (EU)** 0.0 g/l

· **VOC (USA):** 0.0 g/l / 0.00 lb/gal

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H228 Flammable solid.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

· **Contact:**

· **Date of preparation / last revision** 02/21/2024

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Solids 1: Flammable solids – Category 1

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

US