



# Safety Data Sheet (SDS) 4485

SDS Revision Date: 04/10/2015

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Identity** 4485  
**Alternate Names** 4485

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

**Intended use** Contact ChemStation representative.  
**Application Method** Contact ChemStation representative.

### 1.3. Details of the supplier of the safety data sheet

**Company Name** ChemStation MnDak  
3001 South 17th Street  
Moorhead MN 56560

### Emergency

**CHEMTREC (USA)** (800) 424-9300  
**Customer Service: ChemStation MnDak** (218) 233-2727

## 2. Hazard identification of the product

### 2.1. Classification of the substance or mixture

Skin Irrit. 3;H316 Causes mild skin irritation. (Not adopted by US OSHA)  
Eye Irrit. 2;H319 Causes serious eye irritation.

### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



## Warning

H316 Causes mild skin irritation.  
H319 Causes serious eye irritation.

**[Prevention]:**

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P332+313 If skin irritation occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

**[Storage]:**

No GHS storage statements

**[Disposal]:**

No GHS disposal statements

### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations                                   | Weight % | GHS Classification   | Notes  |
|--|----------|--|--------|
| Ethylene glycol monobutyl ether<br>CAS Number: 0000111-76-2        | 1.0 - 10 | Acute Tox. 4;H332<br>Acute Tox. 4;H312<br>Acute Tox. 4;H302<br>Eye Irrit. 2;H319<br>Skin Irrit. 2;H315 | [1][2] |
| Diphosphoric acid, tetrapotassium salt<br>CAS Number: 0007320-34-5 | 1.0 - 10 | Eye Irrit. 2;H319  | [1]    |

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### 4. First aid measures

**4.1. Description of first aid measures****General**

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

**Inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eyes**

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Ingestion**

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

|                 |   |
|-----------------|---|
| <b>Overview</b> | No specific symptom data available.<br>See section 2 for further details. |
| <b>Eyes</b>     | Causes serious eye irritation.  |
| <b>Skin</b>     | Causes mild skin irritation. (Not adopted by US OSHA)                     |

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.  
Do not use; water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

### 5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

**ERG Guide No.** 0

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

## 7. Handling and storage

### 7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

| CAS No.      | Ingredient                             | Source   | Value                         |
|--------------|--|----------|-------------------------------|
| 0000111-76-2 | Ethylene glycol monobutyl ether        | OSHA     | TWA 50 ppm (240 mg/m3) [skin] |
|              |  | ACGIH    | TWA: 20 ppm Revised 2003,     |
|              |  | NIOSH    | TWA 5 ppm (24 mg/m3) [skin]   |
|              |  | Supplier | No Established Limit          |
| 0007320-34-5 | Diphosphoric acid, tetrapotassium salt | OSHA     | No Established Limit          |
|              |  | ACGIH    | No Established Limit          |
|              |  | NIOSH    | No Established Limit          |
|              |  | Supplier | No Established Limit          |

#### Carcinogen Data

| CAS No.      | Ingredient                             | Source | Value   |
|--------------|--|--------|---|
| 0000111-76-2 | Ethylene glycol monobutyl ether        | OSHA   | Select Carcinogen: No   |
|              |  | NTP    | Known: No; Suspected: No  |
|              |  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No; |
| 0007320-34-5 | Diphosphoric acid, tetrapotassium salt | OSHA   | Select Carcinogen: No   |
|              |  | NTP    | Known: No; Suspected: No  |
|              |  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;  |

### 8.2. Exposure controls

#### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

#### Eyes

Protective safety glasses recommended.

#### Skin

Wear overalls to keep skin contact to a minimum.

#### Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

#### Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

|  |  |
|--|--|
| <b>Appearance</b>                                      | Water white Thin liquid  |
| <b>Odor</b>  | Mild   |
| <b>Odor threshold</b>                                  | Not Measured   |
| <b>pH</b>  | 9.6 - 10.2   |
| <b>Melting point / freezing point</b>                  | Not Measured   |
| <b>Initial boiling point and boiling range</b>         | >212 deg F   |
| <b>Flash Point</b>                                     | >200 degrees F PMCC (non-flammable)  |
| <b>Evaporation rate (Ether = 1)</b>                    | 0.33   |
| <b>Flammability (solid, gas)</b>                       | Not Applicable   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> Not Measured<br><b>Upper Explosive Limit:</b> Not Measured |
| <b>Vapor pressure (Pa)</b>                             | Not Determined   |
| <b>Vapor Density</b>                                   | Not Determined   |
| <b>Specific Gravity</b>                                | 1.011 - 1.021  |
| <b>Solubility in Water</b>                             | Not Measured   |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured   |
| <b>Auto-ignition temperature</b>                       | Not Measured   |
| <b>Decomposition temperature</b>                       | Not Measured   |
| <b>Viscosity (cSt)</b>                                 | Not Measured   |
| <b>Foaming</b>   | Moderate   |

## 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

## 11. Toxicological information

### Acute toxicity

| Ingredient   | Oral LD50, mg/kg                   | Skin LD50, mg/kg                   | Inhalation Vapor LD50, mg/L/4hr   | Inhalation Dust/Mist LD50, mg/L/4hr | Inhalation Gas LD50, ppm |
|--|------------------------------------|------------------------------------|-----------------------------------|-------------------------------------|--------------------------|
| Ethylene glycol monobutyl ether - (111-76-2)         | 1,414.00, Guinea Pig - Category: 4 | 1,200.00, Guinea Pig - Category: 4 | 173.00, Guinea Pig - Category: NA | No data available                   | No data available        |
| Diphosphoric acid, tetrapotassium salt - (7320-34-5) | No data available                  | No data available                  | No data available                 | No data available                   | No data available        |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Classification                | Category | Hazard Description                                    |
|-------------------------------|----------|---|
| Acute toxicity (oral)         | ---      | Not Applicable  |
| Acute toxicity (dermal)       | ---      | Not Applicable  |
| Acute toxicity (inhalation)   | ---      | Not Applicable  |
| Skin corrosion/irritation     | 3        | Causes mild skin irritation. (Not adopted by US OSHA) |
| Serious eye damage/irritation | 2        | Causes serious eye irritation.                        |
| Respiratory sensitization     | ---      | Not Applicable  |
| Skin sensitization            | ---      | Not Applicable  |
| Germ cell mutagenicity        | ---      | Not Applicable  |
| Carcinogenicity               | ---      | Not Applicable  |
| Reproductive toxicity         | ---      | Not Applicable  |
| STOT-single exposure          | ---      | Not Applicable  |
| STOT-repeated exposure        | ---      | Not Applicable  |
| Aspiration hazard             | ---      | Not Applicable  |

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

| Ingredient   | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|--|-----------------------|----------------------------|-------------------|
| Ethylene glycol monobutyl ether - (111-76-2)         | 220.00, Fish (Piscis) | 1,000.00, Daphnia magna    | Not Available     |
| Diphosphoric acid, tetrapotassium salt - (7320-34-5) | Not Available         | Not Available              | Not Available     |

**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential**

Not Measured

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No data available.

**13. Disposal considerations**

**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

**14. Transport information**

|   |                                   |
|---|-----------------------------------|
| <b>14.1. UN number</b>                  | Not Applicable                    |
| <b>14.2. UN proper shipping name</b>    | Compound, Cleaning,N.O.I., Liquid |
| <b>14.3. Transport hazard class(es)</b> | Not Applicable                    |
| <b>14.4. Packing group</b>              | Not Applicable                    |

**15. Regulatory information**

**Regulatory Overview**      The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)**      All components of this material are either listed or exempt from listing on the TSCA Inventory.

**WHMIS Classification**      D2B

**US EPA Tier II Hazards**

**Fire:** No

**Sudden Release of Pressure:** No

**Reactive:** No

**Immediate (Acute):** Yes

**Delayed (Chronic):** No

**EPCRA 311/312 Chemicals and RQs:**  
(No Product Ingredients Listed)

**EPCRA 302 Extremely Hazardous :**  
(No Product Ingredients Listed)

**EPCRA 313 Toxic Chemicals:**  
Ethylene glycol monobutyl ether

**Proposition 65 - Carcinogens (>0.0%):**  
(No Product Ingredients Listed)

**Proposition 65 - Developmental Toxins (>0.0%):**  
(No Product Ingredients Listed)

**Proposition 65 - Female Repro Toxins (>0.0%):**

(No Product Ingredients Listed)

**Proposition 65 - Male Repro Toxins (>0.0%):**

(No Product Ingredients Listed)

**N.J. RTK Substances (>1%):**

Ethylene glycol monobutyl ether

**Penn RTK Substances (>1%):**

Ethylene glycol monobutyl ether

## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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