





DK-880

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Rev. Date: 06/01/2015

SAFETY DATA SHEET

Hazards	Personal Protection	Transport Information
	 	Not classified

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

1.1. Product Identifier:

Product Name: **DK-880**
Type of product: Mixture

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

Product use: Processing aid for industrial applications
Uses advised against: None

1.3. Details of the supplier of the safety data sheet

Supplier: **Der-Kel Chemical**
P.O. Box 90019
3012 Freeman Ave
Chattanooga, TN 37406

Telephone: 423-622-9808
Fax: 423-622-9840
E-mail address: rickholder@derkel.com

1.4. Emergency telephone number

24-hr. emergency number: **CHEM-TEL: (800) 255-3924**

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to paragraph (d) of Regulation 29 CFR 1910.1200: Not classified

2.2. Label Elements

Labelling according to paragraph (f) of Regulation 29 CFR 1910.1200

Hazard symbol(s): None
Signal word: None
Hazard statement(s): None
Precautionary statement(s): None

2.3. Other Hazards

Spills produce extremely slippery surfaces.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable, this product is not a substance.

3.2. Mixtures

Hazardous Components

Distillates (petroleum), hydrotreated light

Concentration:	20 – 30%
CAS Number:	64742-47-8
Classification according to paragraph (d) of Regulation 29 CFR 1910.1200:	Asp. Tox. 1;H304

Notes: Does not result in classification of the mixture if the kinematic viscosity is greater than 20.5 mm²/s measured at 40° C.

Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched

Concentration:	< 3%
CAS Number:	69011-36-5
Classification according to paragraph (d) of Regulation 29 CFR 1910.1200:	Acute Tox. 4;H302 Eye Dam. 1;H318

For explanation of abbreviations, see Section 16.

4. FIRST-AID MEASURES

4.1. Description of first aid measures

Inhalation:	Move to fresh air. No hazards which require special first aid measures.
Skin contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. In case of persistent skin irritation, consult a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
Ingestion:	Rinse mouth with water. DO NOT induce vomiting. Call a physician or poison control center immediately.

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

None under normal use.

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

None reasonably foreseeable.

Other information

None

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:	Water. Water spray. Foam. Carbon dioxide (CO ₂). Dry powder.
Unsuitable extinguishing media:	None.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Ammonia. Carbon oxides (CO_x). Nitrogen oxides (NO_x). Hydrogen chloride. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3. Advice for fire-fighter.

Protective measures: Wear self-contained breathing apparatus and protective suit.
Other information: Spills produce extremely slippery surfaces.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: **DO NOT** touch or walk through spilled material. Spills produce extremely slippery surfaces.
Protective equipment: Wear adequate personal protective gloves and eye/face protection.
Emergency procedures: Keep people away from spill/leak.

6.2. Environmental Precautions

As with all chemical products, **DO NOT** flush into surface water.

6.3. Method and materials for containment and cleaning up

Small spills: **DO NOT FLUSH WITH WATER.** Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
Large spills: **DO NOT FLUSH WITH WATER.** Dam up. Clean up promptly by scoop or vacuum.
Residues: Soak up with inert absorbent material. After cleaning, flush away traces with water.

6.4 Reference to other sections

Section 7: HANDLING AND STORAGE; Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION, Section 13: DISPOSAL CONSIDERATIONS.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When handling **DO NOT** eat, drink or smoke.

7.2. Conditions for safe storage

Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material. Incompatible with oxidizing agents.

7.3. Specific end use(s)

None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits: Distillates (petroleum), hydrotreated light
ACGIH: 200 mg / m³ (8-hour)

8.2. Exposure controls

Appropriate engineering controls: Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Individual protection measures, such as personal protective equipment

- a) Eye/face protection: Safety glasses with side-shields
- b) Skin protection: Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.
- c) Hand protection: PVC or other plastic material gloves
- d) Respiratory protection: No personal respiratory protective equipment normally required.
- e) Additional advice: Wash hands and face before breaks and immediately after handling the product. Wash hands before breaks and at the end of workday.

Environmental exposure controls: **DO NOT** allow uncontrolled discharge of product into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	viscous liquid, milky
Odor:	aliphatic
Odor threshold:	no data available
pH:	4 - 6 @ 5 g / L
Melting point/range (° C):	< 5° C
Initial boiling point and boiling range:	> 100° C
Flash point:	does not flash
Evaporation rate	no data available
Flammability (solid, gas):	not applicable
Upper/lower flammable or explosive limits:	not expected to create explosive atmospheres
Vapor pressure:	2.3 kPa @ 20° C
Relative density:	1.0 – 1.1
Solubility(ies):	completely miscible
Partition coefficient:	not applicable
Autoignition temperature:	no data available
Decomposition temperature:	> 150° C
Viscosity:	>20.5 mm ² /s @ 40° C
Explosive properties:	not expected to be explosive based on the chemical structure
Oxidizing properties:	not expected to be oxidizing based on the chemical structure

9.2. Other information

None

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

10.5. Incompatible materials

Incompatible with oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO_x), carbon oxides (CO_x) Ammonia. Hydrogen cyanide (hydrocyanic acid).

11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Information on the product as supplied:

Acute Oral:	LD ₅₀ / oral / rat > 5000 mg / kg
Acute Dermal:	LD ₅₀ / dermal / rat > 5000 mg / kg
Acute Inhalation:	The product is not expected to be toxic by inhalation.
Skin corrosion / irritation:	Not irritating.
Serious eye damage / eye irritation:	Causes serious eye irritation.
Respiratory / skin sensitization:	The results of testing on guinea pigs showed this material to be non-sensitizing.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproduction toxicity:	Nor toxic for reproduction.
STOT – single exposure:	No known effects.
STOT – repeated exposure:	No known effects.
Aspiration hazard:	Due to the viscosity, this product does not present an aspiration hazard.

Relevant information on the hazardous components:Distillates (petroleum), hydrotreated light

Acute oral toxicity:	LD ₅₀ / oral / rat > 5000 mg / kg (OECD 401)
Acute dermal toxicity:	LD ₅₀ / dermal / rabbit > 5000 mg / kg (OECD 402)
Acute inhalation toxicity:	LC ₅₀ / inhalation / 4h / rat = 4951 mg / m ³ (OECD 403)
Skin corrosion / irritation:	Not irritating. (OECD 404) Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye irritation:	Not irritating. (OECD 405)
Respiratory / skin sensitization:	By analogy with similar products, this product is not expected to be sensitizing. (OECD 406)
Mutagenicity:	Not mutagenic. (OECD 471, 473, 474, 476, 478, 479)
Carcinogenicity:	Carcinogenicity study in rats (OECD 451): Negative
Reproductive toxicity:	By analogy with similar substances, this substance is not expected to be toxic for reproduction. NOAEL / rat = 300 ppm (OECD 421)
STOT – single exposure:	No known effects.
STOT – repeated exposure:	NOAEL / oral / rat / 90 days ≥ 3000 mg/kg/day (OECD 408) (Based on results obtained from tests on analogous products).
Aspiration hazard:	May be fatal if swallowed and enters airways.

Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched

Acute oral toxicity:	LD ₅₀ / oral / rat = 200 – 300 mg / kg
Acute dermal toxicity:	LD ₅₀ / dermal / rabbit > 2000 mg / kg

Product Name: **DK-880**

Acute inhalation toxicity:	No data available.
Skin corrosion / irritation:	Not irritating.
Serious eye damage / eye irritation:	Causes serious eye irritation.
Respiratory / skin sensitization:	The results of testing on guinea pigs showed this material to be non-sensitizing.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductive toxicity:	Two-Generation Reproduction Toxicity (OECD 416) NOAEL / rat > 250 mg / kg / day Prenatal Development Toxicity Study (OECD 414) NOAEL / Maternal toxicity / rat > 50 mg / kg / day NOAEL / Developmental toxicity / rat > 50 mg / kg / day
STOT – single exposure:	No known effects.
STOT – repeated exposure:	NOAEL / oral / rat / 600 days = 50 mg / kg / day
Aspiration hazard:	No known effects.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Information on the product as supplied:

Acute toxicity to fish:	LC ₅₀ / <i>Fish</i> / 96 hours = 10 - 100 mg / L (Estimated)
Acute toxicity to invertebrates:	EC ₅₀ / <i>Daphnia</i> / 48 hours = 10 - 100 mg / L (Estimated)
Acute toxicity to algae:	Algal inhibition test are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	No data available.
Chronic toxicity to algae:	No data available.
Effects on terrestrial organisms:	No data available. Readily biodegradable, exposure to soil is unlikely.
Sediment toxicity:	No data available. Readily biodegradable, exposure to sediment is unlikely.

Relevant information on the hazardous components

Distillates (petroleum), hydrotreated light

Acute toxicity to fish:	LC ₀ / <i>Oncorhynchus mykiss</i> / 96 hours > 1000 mg / L (OECD 203)
Acute toxicity to invertebrates:	EC ₀ / <i>Daphnia magna</i> / 48 hours > 1000 mg / L (OECD 202)
Acute toxicity to algae:	IC ₀ / <i>Pseudokirchneriella subcapitata</i> / 72 hours > 1000 mg / L (OECD 201)
Chronic toxicity to fish:	NOEC / <i>Oncorhynchus mykiss</i> / 28 days > 1000 mg / L
Chronic toxicity to invertebrates:	NOEC / <i>Daphnia magna</i> / 21 days > 1000 mg / L
Toxicity to microorganisms:	EC ₅₀ / <i>Tetrahymena puriformis</i> / 48 h > 1000 mg / L
Effects on terrestrial organisms:	No data available.
Sediment toxicity:	No data available. Readily biodegradable, exposure to sediment is unlikely

Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched

Acute toxicity to fish:	LC ₅₀ / <i>Cyprinus carpio</i> / 96 hours = 1 - 10 mg / L (OECD 203)
Acute toxicity to invertebrates:	EC ₅₀ / <i>Daphnia</i> / 48 hours = 1 - 10 mg / L (OECD 202)
Acute toxicity to algae:	IC ₅₀ / <i>Desmodesmus subspicatus</i> / 72 hours = 1 - 10 mg / L (OECD 201)
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	No data available.
Toxicity to microorganisms:	EC ₁₀ / activated sludge / 17 h > 10000 mg / L (DIN 38412-8)
Effects on terrestrial organisms:	No data available.
Sediment toxicity:	No data available.

12.2. Persistence and degradability

Information on the product as supplied:

Product Name: **DK-880**

Degradation: Readily biodegradable.
Hydrolysis: At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.
Photolysis: No data available.

Relevant information on the hazardous components

Distillates (petroleum), hydrotreated light

Degradation: Readily biodegradable.
Hydrolysis: Does not hydrolyze.
Photolysis: No data available

Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched

Degradation: Readily biodegradable. > 60% / 28 days (OECD 301 B)
Hydrolysis: Does not hydrolyze.
Photolysis: No data available

12.3. Bioaccumulation

Information on the product as supplied:

This product is not expected to bioaccumulate.

Partition coefficient (Log Pow): Not applicable.
Bioconcentration factor (BCF): No data available.

Relevant information on the hazardous components

Distillates (petroleum), hydrotreated light

Partition coefficient (Log Pow): 3 - 6
Bioconcentration factor (BCF): No data available.

Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched

Partition coefficient (Log Pow): > 3
Bioconcentration factor (BCF): No data available.

12.4. Mobility in soil

Information on the product as supplied

No data available.

Relevant information on the hazardous components

Distillates (petroleum), hydrotreated light

KOC: No data available.

Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched

KOC: > 5000

12.5. Other adverse effects

13. DISPOSAL CONSIDERATIONS**13.1. Water treatment methods**

Waste from residues / unused products: Dispose of in accordance with local regulations.
 Contaminated packaging: If recycling is not practicable, dispose of in compliance with local regulations.
 Recycling: Store containers and offer for recycling of material when in accordance with the local regulations.

14. TRANSPORTATION INFORMATION

Land transport (DOT): Not classified.
 Sea transport (IMDG): Not classified.
 Air transport (IATA): Not classified.

15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Information on the product as supplied:

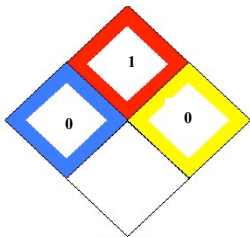
TSCA Chemical Substances Inventory: All components of this product are either listed on the inventory or are exempt from listing.

US SARA Reporting Requirements

SARA Section 311 / 312 Hazard Class: Not concerned.
 RCRA Status: Not RCRA hazardous.
 California Proposition 65 Information: **WARNING!** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm, Acrylamide.

16. OTHER INFORMATION

Contact person: Product Manager

NFPA and HMIS® Ratings:

NFPA:
 Health: 0
 Flammability: 1
 Reactivity: 0
 Special:

HMIS®:
 Health: 0
 Flammability: 1
 Reactivity: 0
 PPE Code: B

Other Information

Creation Date: 08/04/1998
 Previous Revision: 01/07/2011, 12/05/2014- updates
 Current Revision: 06/01/2015 – updates. Supersedes previous issues.

Key or legend to abbreviations and acronyms used in the safety data sheet

Abbreviations:

Product Name:

DK-880

Rev. Date: 06/01/2015

Asp. Tox. 1 = Aspiratory hazard Category Code 1

Eye Dam. 1 = Serious eye damage/eye irritation Category Code 1

H-Phrases:

H302 – Harmful if swallowed.

H304 – May be fatal if swallowed and enters airways.

H318 – Causes serious eye damage.

This SDS was prepared in accordance with the following:

Federal Regulation 29 CFR 1910.1200

Prepared by: Regulatory Dept.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.
