

Material Safety Data Sheet

Material Name: KOSTER VAP I[®] ORS-D

MSDS DATE: November 25, 2009

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

1.1 Identification of the Product

Trade name: KOSTER VAP I[®] ORS-D

1.2 Company Identification:

KOSTER American Corp.
2585 Aviator Drive
Virginia Beach, VA 23453

Phone: 757-425-1206

Emergency # INFOTREC: 800-535-5053

2 COMPOSITION / INFORMATION ON INGREDIENTS

2.1 Chemical Characteristics

Aqueous combination of surfactants, polyvalent-compounds, hetero-organic substances, glycol-derivates and alkaline active ingredients.

2.2 Dangerous Components

CAS 1310-73-2	Sodium hydroxide	0.5-1.5 %		Xi	36/38	EINECS	215-185-5
CAS 111-76-2	2-butoxyethanol	1 – 2 %	Xi	36/38		EINECS	203-905-0

3 HAZARDS IDENTIFICATION

3.1 Hazard Description: Xi, irritant

3.2 Particular Hazards to Man and Environment: R 36/38 Irritating to eyes and skin.

3.3 Classification System: According to the latest editions of the EU-lists.

4 FIRST-AID MEASURES

4.1 General Measures: No special measures required.

4.2 Inhalation: Supply fresh air; consult doctor in case of complaints.

4.3 Skin: Immediately rinse with water

4.4 Eyes: Rinse opened eye for several minutes under running water; call for a doctor.

4.5 Ingestion: Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special Hazards caused by the Substance: No effects are known.

5.3 Protective Equipment: No special measures required.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Avoid skin and eye contact with concentrated product.

6.2 Environmental Precautions: Avoid influx of concentrated product into the environment.

6.3 Spillage Clean-up Method: Large quantities – absorb mechanically
Small quantities – wash away with plenty of water

7 EXPOSURE CONTROLS / PERSONAL PROTECTION

7.1 Information for Safe Handling: No special precautions are necessary if used correctly.

7.2 Information about Fire and Explosion Protection: No special measures required.

7.3 Requirements to be met by storerooms and receptacles: Use alkali-resistant receptacles and equipment.

7.4 Information about storage in one common storage facility: Not required.

7.5 Further information about storage conditions: Keep receptacle tightly sealed.

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Additional information about design of technical facilities: No further data; see item 7.

8.2 Personal Protective Equipment:

8.2.1 General Protective and Hygienic Measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

8.2.2 Respiratory Protection:

Not required

8.2.3 Protection of Hands: Protective gloves (EN 374)

Material of Gloves: Natural rubber, NR. Neoprene gloves.

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.

The determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

8.2.4 Eye Protection: Tightly sealed goggles.

9 PHYSICAL AND CHEMICAL PROPERTIES

Form: Fluid	Color: Colorless	Odor: Weak, characteristic
Melting point/Melting Range:	undetermined	
Boiling point/Boiling Range:	212°F	
Flash point:	212°F	
Ignition temperature:	464°F	
Self-igniting:	Product is not self-igniting	
Danger of explosion:	Product does not present an explosion hazard	
Vapor pressure at 68°F:	23 hPa	
Density at 68°F:	1.03 g/cm ³	
Solubility in water:	Fully miscible	
pH-value:	ca. 13	

10 STABILITY AND REACTIVITY

10.1 Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications

10.2 Materials to be avoided: Acids

10.3 Dangerous reactions: No dangerous reactions known

10.4 Dangerous decomposition products: No dangerous decomposition products known

11 TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:

11.1.1 Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes

on the eye: Strong caustic effect

11.1.2 Sensitization: No sensitizing effects known

11.1.3 Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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12 ECOLOGICAL INFORMATION

12.1 Information about elimination (persistence and degradability): Product ingredients are readily biodegradable.

12.2 General Notes: No harmful effects are known, if used professionally and according to instructions

13 DISPOSAL CONSIDERATIONS

13.1 Product:

Recommendation: Must be specially treated adhering to official regulations.

13.2 Uncleaned Packaging:

Recommendation: Packaging may be reused or recycled after cleaning.

13.3 Recommended Cleansing Agents: Water

14 TRANSPORT INFORMATION

This product requires no labeling

15 REGULATORY INFORMATION

15.1 Labeling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

15.2 Code Letter and Hazard Designation of Product: Xi Irritant

15.3 Risk Phrases: 36 Irritating to eyes

Relevant R-phrases

36/38 Irritating to eyes and skin

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

28 After contact with skin, wash immediately with plenty of water

45 In case of accident or if you feel unwell, seek medical advice immediately

36/37/39 Wear suitable protective clothing, gloves and eye/face protection

National Regulations: Waterhazard class: Water hazard class 1 (Self-assessment)

TSCA (Toxic Substances Control Act): Components of this product are listed on the TSCA inventory

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories

Acute Health

313 Reportable Ingredients

None

CERCLA (Comprehensive Response Compensation and Liability Act)

- (a) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 2,000 lbs) or greater amounts, according to 40 CFR 302

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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15 REGULATORY INFORMATION - CONTINUED

EINECS (EUROPEAN Inventory of Existing Commercial Chemical Substances)

Components of this product are on the European Inventory of Existing Commercial Chemical Substances

AICS (Australian Inventory of Chemical Substances)

Components of this product are on the Australian Inventory of Chemical Substances

EC Risk Phrases

R36 Irritating to eyes
R38 Irritating to skin

EC Safety Phrases

S2 Keep out of reach of children
S24 Avoid contact with skin
S25 Avoid contact with eyes
S28 After contact with skin, wash immediately
with plenty of soap and water

16 OTHER INFORMATION

No Specific Notes

HMIS HAZARD RATINGS

Health	1	0 = insignificant	3 = high
Flammability	0	1 = slight	4 = extreme
Reactivity	0	2 = moderate	

Personal Protective Equipment C Safety Glasses, Gloves, Apron

The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

Effective Date: 6-8-2004