

**CALFAX® DB-45****1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name CALFAX® DB-45
Company Address 2744 East Kemper Road
Cincinnati, Ohio 45241
Emergency Telephone Number Chemtrec 1-800-424-9300
Pilot Chemical Corporate Office 1-513-326-0600

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	OSHA PEL
Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonated, sodium salts	119345-04-9	45-46	-
Water	7732-18-5	54-55	-

3. HAZARDS IDENTIFICATION

Emergency Overview Severe eye irritation

Potential Health Effects

Eyes Risk of serious damage to eyes.
Skin Substance may cause slight skin irritation..
Inhalation No information available.
Ingestion May cause gastrointestinal irritation..

Chronic effects No information available.

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician
Inhalation Move to fresh air. If symptoms persist, call a physician
Ingestion Drink 1 or 2 glasses of water. Consult a physician. Do not induce vomiting without medical advice.

5. FIRE-FIGHTING MEASURES

Flammable Properties Non-flammable water solution.

Flammable Limits Not Determined.

Hazardous Combustion Products Oxides of sulfur. Oxides of carbon.

SPECIAL FIRE FIGHTING PROCEDURES

Method Water mist may be used to cool closed containers.

Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Dry chemical. Foam.

Unusual Fire & Explosive Hazards None

6. ACCIDENTAL RELEASE MEASURES

Small Spillages	Recover all usable material. Soak up balance with sand or dirt.
Large Spillages	In case of a large spill by truck, use small spill procedure and a vacuum truck. Call CHEMTREC at 1-800-424-9300.

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Avoid contact with skin, eyes and clothing.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	Ensure adequate ventilation, especially in confined areas
Eye/Face Protection	Tightly fitting safety goggles. If splashes are likely to occur, wear:. Face-shield.
Skin Protection	Wear protective gloves/clothing .
Respiratory Protection	No special protective equipment required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	>200°F
Boiling Point/Range	100°C
Vapor Pressure	17.8 mm Hg @ 20 °C
Volatile Weight %	55
Water Solubility	Soluble in all proportions
Specific Gravity	1.15
pH	8-10 (in 5% Water Solution)
Odor	Slight
Appearance	Clear Yellow Amber
Physical State	Liquid

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Unsuitable Materials	Strong oxidizing agents and strong acids.
Conditions to Avoid	No information available.
Hazardous Decomposition Products	None under normal use
Hazardous Polymerization	No information available

11. TOXICOLOGICAL INFORMATION

Eyes	Causes serious eye damage
Skin	May cause irritation to the skin
Ingestion	Unknown
Inhalation	May be irritating to the respiratory system.
Chronic Toxicity	No information available
Carcinogenicity	Product is not listed.
Hazard Type	Eye irritant

12. ECOLOGICAL INFORMATION

Ecotoxicity effects	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Chemical Fate	Exhibits inherent biodegradability.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of in accordance with local regulations Should not be released into the environment
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14. TRANSPORT INFORMATION

The following transportation descriptions are for bulk transport and international shipments. Materials in non-bulk quantities shipped domestically within the United States are non-regulated.

DOT

Proper shipping name	Environmentally hazardous substances,liquid,n.o.s. (Dodecyl diphenyl oxide disulfonate), Marine Pollutant
Hazard class	9
UN-No	UN3082
Packing Group	III
Description	UN3082, Environmentally hazardous substances,liquid, n.o.s.(Dodecyl diphenyl oxide disulfonate),9,PG III,Marine Pollutant

ICAO

UN-No	UN3082
Proper shipping name	Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate), Marine Pollutant
Hazard Class	9
Packing Group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate),9,PG III, Marine Pollutant

IATA

UN-No	UN3082
Proper shipping name	Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate), Marine Pollutant
Hazard Class	9
Packing Group	III
ERG Code	9L
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate),9,PG III, Marine Pollutant

14. TRANSPORT INFORMATION
IMDG/IMO

Proper shipping name Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate), Marine Pollutant
Hazard Class 9
UN-No UN3082
Packing Group III
EmS No. F-A, S-F
Description UN3082, Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate),9,PG III, marine pollutant

RID

Proper shipping name Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate), marine pollutant
Hazard Class 9
UN-No UN3082
Packing Group III
Description UN3082, Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate),9,III,RID, Marine Pollutant
ADR/RID-Labels 9

ADR

Proper shipping name Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate), marine pollutant
Hazard Class 9
UN-No UN3082
Packing Group III
Description UN3082, Environmentally hazardous substances, liquid, n.o.s.(Dodecyl diphenyl oxide disulphonate),9,III, Marine Pollutant

ADN

Proper shipping name Matière dangereuse du point de vue de l'environnement, liquide, N.S.A., (Dodecyl diphenyl oxide disulphonate), polluant marin
Hazard Class 9
Packing Group III
Classification Code M6
Special Provisions 274, 909, 944
Description UN3082 Matière dangereuse du point de vue de l'environnement, liquide, N.S.A.,(Dodecyl diphenyl oxide disulphonate)9,III, polluant marin
Hazard Labels 9
Limited Quantity 5 kg

15. REGULATORY INFORMATION
International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonated, sodium salts	X	X	-	X*	-	X*	X	X	X	X*
Water	X	X	-	X	-	X	X	X	X	X

*Mixture of

Disodium oxybis(Dodecylbenzenesulfonate) 25167-32-2

Benzenesulfonic acid, dodecyl(sulfophenoxy)- disodium salt 28519-02-0 249-063-8

USA
Federal Regulations



SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

16. OTHER INFORMATION

Revision Date 06/13/2013
Prepared by David A. Pollard

Disclaimer

The information provided on this MSDS 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 as 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 material or in any process, unless specified in the text.