

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier

Trade name or designation of the mixture

Diesel Exhaust Fluid / BlueSky®

Registration number -

Date of first issue 02-22-2011

Version number 1.0

Revision date 02-22-2011

Supersedes date

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Not available.

Uses advised against None known.

Details of the supplier of the safety data sheet

Company name Kruse North America Inc

Address 3511 Silverside Rd., Concord Plaza, Suite 203

Telephone number 13024779898

Emergency telephone

number CHEMTREC (USA & Canada): 1-800-424-9300

Product use Industrial use

2. Hazards Identification

Potential health effects

Routes of exposure Eye contact. Skin contact. Ingestion.

Non-hazardous components CAS # Percent

3. Composition / Information on Ingredients

Urea 57-13-6 40 – 60

4. First Aid Measures

First aid procedures

Eye contact Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

General advice If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing

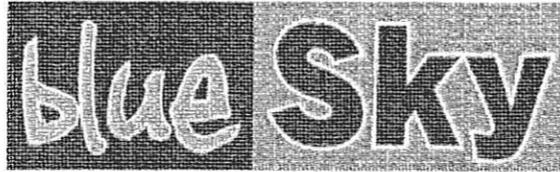
Media Not available

Not available.

Material name: Diesel Exhaust Fluid / BlueSky®

5489 Version #: 1.0 Revision date: 02-22-2011 Print date: 02-22-2011

M SDS US



Advice for firefighters

Special protective equipment for firefighters

Not available.

Special firefighting procedures

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

Hazardous combustion products

May include oxides of nitrogen, Carbon oxides, Ammonia.

6. Accidental Release Measures

Methods for containment Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

Never return spills in original containers for re-use.

7. Handling and Storage

Storage Store in tightly closed original container in a dry and cool place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

Components Type Value Form

U.S. - WEEL

Urea (57-13-6) TWA 10 mg/m³ Total particulate.

Personal protective equipment

Eye / face protection Chemical goggles are recommended.

9. Physical & Chemical Properties

Information on basic physical and chemical properties

Appearance Clear liquid.

Physical state Liquid.

Form Liquid.

Color Colorless to light yellow.

Odor Characteristic.

Odor threshold Not available.

pH 8

Melting point/freezing point 32 °F (0 °C)

Boiling point, initial boiling point, and boiling range 221 °F (105 °C)

Flash point Not applicable

Auto-ignition temperature Not applicable.

Flammability (solid, gas) Not available.

Flammability limit - lower(%) Not available.

Flammability limit -upper (%) Not available.

Oxidizing properties Not applicable.

Explosive properties Not applicable.

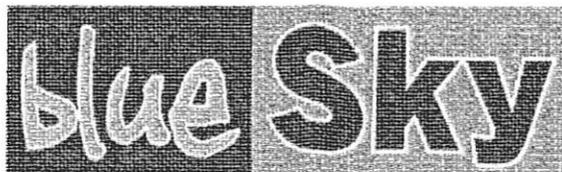
Explosive limit Not applicable.

Vapor pressure Not applicable.

Material name: Diesel Exhaust Fluid / BlueSky®

5489 Version #: 1.0 Revision date: 02-22-2011 Print date: 02-22-2011

MSDS US



Vapor density Not applicable.
Evaporation rate Not applicable.
Relative density Not available.
Solubility (water) Miscible
Partition coefficient(n-octanol/water) Not available.
Decomposition temperature Not available.
Viscosity Not available.
Percent volatile Not available.
Burning index Not applicable
Other information No relevant additional information available.

10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal temperature conditions.
Conditions to avoid No dangerous reaction known under conditions of normal use.
Incompatible materials Strong oxidizing agents. Organic nitrites.
Hazardous decomposition products Nitrogen oxides (NOx). Carbon oxides.
Toxicological data

11. Toxicological Information

Components Test Results

Urea (57-13-6) Acute Oral LD50 Rat: 8471 mg/kg
Acute Oral LD50 Sheep: 28500 mg/kg
Acute Other LD50 Mouse: 4600 mg/kg
Acute Other LD50 Rat: 5300 mg/kg

12. Ecological Information

Toxicity

Components Test Results

Urea (57-13-6) EC50 Water flea (Daphnia magna): 3910 mg/l 48 hours
LC50 Giant gourami (Colisa fasciata): 5 mg/l 96 hours

Persistence and degradability The product is easily biodegradable.

Bioaccumulative potential Not available.

Mobility Not available.

Environmental fate - Partition coefficient Not available.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not available.

Other adverse effects Not available.

13. Disposal Considerations

14. Transport Information

DOT

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated

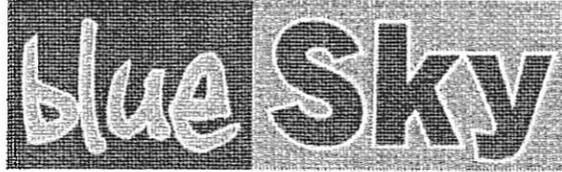
DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Material name: Diesel Exhaust Fluid / BlueSky®
5489 Version #: 1.0 Revision date: 02-22-2011 Print date: 02-22-2011

MSDS US



Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

Australia Australian Inventory of Chemical Substances (AICS) Yes

Canada Domestic Substances List (DSL) Yes

Canada Non-Domestic Substances List (NDSL) No

China Inventory of Existing Chemical Substances in China (IECSC) Yes

Europe European Inventory of Existing Commercial Chemical Substances Yes

(EINECS)

Europe European List of Notified Chemical Substances (ELINCS) No

Japan Inventory of Existing and New Chemical Substances (ENCS) Yes

Korea Existing Chemicals List (ECL) Yes

New Zealand New Zealand Inventory Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

HMIS® ratings Health: 0

Flammability: 0

Physical hazard: 0

NFPA ratings Health: 0

Flammability: 0

Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

Issue date 02-22-2011

Material name: Diesel Exhaust Fluid / BlueSky®

5489 Version #: 1.0 Revision date: 02-22-2011 Print date: 02-22-2011

MSDS US