

SAFETY DATA SHEET

DCS Non-Butyl Food Grade Degreaser #7

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : DCS Non-Butyl Food Grade Degreaser #7
Product no. : 02707EU

Use of the substance/preparation : Concentrated cleaner and degreaser

Company/undertaking identification

Manufacturer : Essential Industries, Inc.
P.O. Box 12
28391 Essential Rd.
Merton, WI 53056-0012 USA

Supplier : Essential Industries, Inc.
P.O. Box 12
28391 Essential Rd.
Merton, WI 53056-0012
United States

Emergency telephone number : 001-262-821-7814

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
2-Aminoethanol	141-43-5	1-5	205-483-3	Xn; R20/21/22 C; R34
See section 16 for the full text of the R-phrases declared above				

Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36/38

Human health hazards : Irritating to eyes and skin.

Additional hazards : None identified.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

DCS Non-Butyl Food Grade Degreaser #7

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Specific treatments : None identified.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Special exposure hazards : No specific hazard.
Not available.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.). Some metallic oxides.

Special protective equipment for fire-fighters : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Remark : No additional remark.

6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).

Environmental precautions and clean-up methods : Avoid contact of spilled material with soil and prevent runoff entering surface waterways. See section 13 for waste disposal information.

If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended : Use original container.

Specific uses :

8. Exposure controls/personal protection

Ingredient name

2-Aminoethanol

Occupational exposure limits

ACGIH TLV (United States, 2004).

STEL: 15 mg/m³ 15 minute(s). Form: All forms

STEL: 6 ppm 15 minute(s). Form: All forms

TWA: 7.5 mg/m³ 8 hour(s). Form: All forms

TWA: 3 ppm 8 hour(s). Form: All forms

Exposure controls

Occupational exposure controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : A respirator is not needed under normal and intended conditions of product use.

Hand protection : Use latex gloves. Double latex gloves should be considered.

Eye protection : Safety glasses. Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes.

Skin protection : Additional body garments should be used to avoid exposed skin surfaces (e.g. sleevelets, apron, disposable suit etc.), based on the task being performed. Appropriate techniques should be used to remove potentially contaminated clothing.

Date of issue : 4/24/2008.

Page: 2/5

9. Physical and chemical properties

General information

Appearance

- Physical state** : Liquid.
Color : Colorless.
Odor : Bland.

Important health, safety and environmental information

- pH** : 10.7 - 11.7
Boiling point : Lowest known value: 100°C (212°F) (water). Weighted average: 102.71°C (216.9°F)
Melting point : May start to solidify at the following temperature: 10.61°C (51.1°F) This is based on data for the following ingredient: 2-Aminoethanol. Weighted average: 0.41°C (32.7°F)
Flash point : Lowest known value: Open cup: 85.9°C (186.6°F). (2-Aminoethanol)
Flammability (solid, gas) : Not applicable.
Explosive properties : Risk of explosion of the product in the presence of mechanical impact: Not available.
Risk of explosion of the product in the presence of static discharge: Not available.
Oxidizing properties : Not available.
Vapor pressure : Highest known value: <0.01 kPa (<0.1 mm Hg) (at 20°C) (Surfactant Blend).
Relative density : Weighted average: 0.32 g/cm³
Solubility : Easily soluble in the following materials: cold water, hot water, methanol, acetone.
Vapor density : Highest known value: 2.11 (Air = 1) (2-Aminoethanol). Weighted average: 1.22 (Air = 1)
Evaporation rate (butyl acetate = 1) : Highest known value: 0.36 (water) Weighted average: 0.35 compared with Butyl acetate.

Other information

- Auto-ignition temperature** : Lowest known value: 409.9°C (769.8°F) (2-Aminoethanol).

10. Stability and reactivity

- Stability** : The product is stable.
Conditions to avoid : None identified.
Materials to avoid : None identified.
Hazardous decomposition products : Decomposition products may include the following materials: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.). Some metallic oxides.

11. Toxicological information

Potential acute health effects

- Inhalation** : No known acute effects of this product resulting from inhalation.
Ingestion : May irritate digestive tract.
Skin contact : Irritating to skin.
Eye contact : Irritating to eyes.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
2-Aminoethanol	LD50	1720 mg/kg	Oral	Rat
	LD50	620 mg/kg	Oral	Guinea pig
	LD50	700 mg/kg	Oral	Mouse
	LDLo	1400 mg/kg	Oral	Mammal

- Carcinogenicity** :
Mutagenicity :
Reproductive toxicity :

Over-exposure signs/symptoms

Target organs

DCS Non-Butyl Food Grade Degreaser #7

: Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Other adverse effects : Not available.

12. Ecological information

Ecotoxicity data

Ingredient name

2-Aminoethanol

Species

Oncorhynchus mykiss (LC50)

Oncorhynchus mykiss (LC50)

Oncorhynchus mykiss (LC50)

Lepomis macrochirus (LC50)

Lepomis macrochirus (LC50)

Lepomis macrochirus (LC50)

Period

96 hour(s)

96 hour(s)

96 hour(s)

96 hour(s)

96 hour(s)

96 hour(s)

Result

150 mg/l

150 mg/l

>200 mg/l

300 mg/l

>300 mg/l

329.16 mg/l

Mobility : Not available.

Other adverse effects : Not available.

13. Disposal considerations

Methods of disposal : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.

Waste classification : Not applicable.

European waste catalogue (EWC) : Not available.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	Not Regulated.	-	-	-		-
ADNR Class	Not Regulated.	-	-	-		-
IMDG Class	Not Regulated.	-	-	-		-
IATA-DGR Class	Not Regulated.	-	-	-		-

15. Regulatory information

EU regulations

Hazard symbol or symbols :



Irritant

Risk phrases : R36/38- Irritating to eyes and skin.

Safety phrases : S24/25- Avoid contact with skin and eyes.
S37/39- Wear suitable gloves and eye/face protection.

Product use : Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.
- Industrial applications.

Date of issue : 4/24/2008.

Page: 4/5

DCS Non-Butyl Food Grade Degreaser #7

EU statistical classification : 32089091
(Tariff Code)

16. Other information

Full text of R-phrases referred to in sections 2 and 3 - Europe : R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R34- Causes burns.
R36/38- Irritating to eyes and skin.

Full text of classifications referred to in sections 2 and 3 - Europe : C - Corrosive
Xn - Harmful
Xi - Irritant

History

Date of printing : 4/24/2008.
Date of issue : 4/24/2008.
Date of previous issue : No previous validation.
Version : 1
Prepared by :

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version 1

Page: 5/5