



SAFETY DATA SHEET

Superclean KD150 System Cleaner

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Superclean KD150 System Cleaner
Product number 7700
Internal identification GHS21975

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

Identified uses Emulsion system cleaner for the treatment of metalworking fluid emulsions

1.3. Details of the supplier of the safety data sheet

Supplier Morris Lubricants
Castle Foregate
Shrewsbury
SY1 2EL

08.45 - 17.00 GMT
T: (+44)(0)1743 232200
F: (+44)(0)1743 353584
sds@morris-lubricants.co.uk

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards Not Classified

Classification (67/548/EEC or -
1999/45/EC)

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.

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Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501a Dispose of contents/container to hazardous or special waste collection point.

Contains 2,2',2''-(HEXAHYDRO-1,3,5-TRIAZINE-1,3,5-TRIYL)TRIETHANOL, 2-AMINOETHANOL

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

2,2',2''-(HEXAHYDRO-1,3,5-TRIAZINE-1,3,5-TRIYL)TRIETHANOL	10-30%
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CAS number: 4719-04-4

EC number: 225-208-0

Classification

Acute Tox. 4 - H302

Acute Tox. 2 - H330

Skin Sens. 1 - H317

Classification (67/548/EEC or 1999/45/EC)

Xn;R22 R43

Alkylether Carbonic acids, aminoneutralised	5-10%
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CAS number: —

Classification

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

2-AMINOETHANOL	1-5%
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CAS number: 141-43-5

EC number: 205-483-3

Classification

Acute Tox. 4 - H302

Acute Tox. 3 - H311

Acute Tox. 4 - H332

Skin Corr. 1B - H314

Eye Dam. 1 - H318

STOT SE 3 - H335

Classification (67/548/EEC or 1999/45/EC)

Xn;R20/21/22. C;R34.

2,2,2, nitrilotriethanol	1-5%
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CAS number: 102-71-6

EC number: 203-904-5

Classification

Not Classified

Classification (67/548/EEC or 1999/45/EC)

C;R34.

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2-(2-butoxyethoxy)ethanol		1-5%
CAS number: 112-34-5	EC number: 203-961-6	REACH registration number: 01-2119475104-44-0000
Classification Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi;R36.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation	May cause eye and respiratory system irritation.
Ingestion	Aspiration into the lungs e.g. through vomiting after ingestion, may result in chemical pneumonia. Aspiration hazard if swallowed.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.

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

Notes for the doctor	Treat symptomatically
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Closed containers can burst violently when heated, due to excess pressure build-up.
Hazardous combustion products	In case of fire, toxic gases (CO, CO ₂ , NO _x) may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Spent emulsions must be disposed of via an authorised method and not discharged to drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Use sealed containers for reclamation or dispose of at a licenced hazardous waste collection point. Avoid contact with water.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Chemical storage.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

2-(2-butoxyethoxy)ethanol

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m³

Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

2-AMINOETHANOL (CAS: 141-43-5)

DNEL

Workers - Dermal; Long term systemic effects: 1 mg/kg/day
 Workers - Inhalation; Long term local effects: 3.3 mg/m³
 Consumer - Oral; Long term local effects: 3.75 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 0.24 mg/kg/day
 Consumer - Inhalation; Long term local effects: 2 mg/m³

PNEC

- Fresh water; 0.085 mg/l
 - Marine water; 0.0085 mg/l
 - Secondary Poisoning; 0.025 mg/l
 - Sediment (Freshwater); 0.425 mg/kg
 - Sediment (Marinewater); 0.0425 mg/kg
 - Soil; 0.035 mg/kg
 - STP; 100 mg/l

2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)

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DNEL

Workers - Inhalation; Short term local effects: 101.2 mg/m³
 Workers - Dermal; Long term systemic effects: 20 mg/kg/day
 Workers - Inhalation; Long term systemic effects: 67 mg/m³
 Consumer - Inhalation; Short term local effects: 50.6 mg/m³
 Consumer - Dermal; Long term systemic effects: 10 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 34 mg/m³
 Consumer - Oral; Long term systemic effects: 1.25 mg/kg/day

PNEC

- Water, Fresh water; 1.0 mg/l
 - Water, Marine water; 0.1 mg/l
 - Water, Intermittent release; 3.9 mg/l
 - STP; 200 mg/l
 - Sediment (Freshwater); 4.0 mg/kg/sediment dw
 - Sediment (Marinewater); 0.4 mg/kg/sediment dw
 - Soil; 0.4 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Characteristic.
pH	pH (diluted solution 3%): 9.5
Melting point	<0°C
Flash point	> 100°C PMCC (Pensky-Martens closed cup).
Relative density	Not available.
Viscosity	Not available.

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9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not occur

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 8,449.6124031

Acute toxicity - dermal

ATE dermal (mg/kg) 50,000.0

Acute toxicity - inhalation

ATE inhalation (gases ppm) 225,000.0

ATE inhalation (vapours mg/l) 550.0

ATE inhalation (dusts/mists mg/l) 3.52604828

Inhalation High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

Ingestion May cause discomfort if swallowed.

Skin contact May cause sensitisation by skin contact. Undiluted product is a skin irritant.

Eye contact Risk of serious damage to eyes.

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

12.2. Persistence and degradability

Biodegradation Moderately biodegradable.

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12.3. Bioaccumulative potential

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Road transport notes Not classified.

Rail transport notes Not classified.

Sea transport notes Not classified.

Air transport notes Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

ADR/RID subsidiary risk

IMDG subsidiary risk

ICAO subsidiary risk

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

SECTION 16: Other information

Issued by	Regulatory Affairs
Revision date	04/11/2015
Revision	5
Supersedes date	04/11/2015
SDS number	21975
Hazard statements in full	H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation.