

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.09.2017

Version number 1

Revision: 08.09.2017

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier:

Trade name: JLM Step 2 of 2 Cleaning fluid Intake Extreme Clean

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

Product category: PC35 Washing and cleaning products (including solvent based products)

Application of the substance / the mixture: Industrial cleaner

1.3 Details of the supplier of the safety data sheet:

Manufacturer / Importer / Supplier:

JLM Lubricants b.v.
Schiphol Boulevard 127
1118 BG Schiphol
Nederland
Tel: +31 (0)20 2014495

Email: info@jlm lubricants.com

Further information obtainable from: Product Safety Department, www.jlm lubricants.com

1.4 Emergency telephone number:

· Information in case of emergency:

Manufacturer or following emergency telephone numbers:

TecLub +31 (0)20 201 4995 During normal office hours.

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms: GHS07

Signal word: Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash hands thoroughly after handling.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards:

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/Information on Ingredients

3.2 Chemical characterisation: Mixtures:

Description: Detergent composition

(Contd. on page 2)

GB

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.09.2017

Version number 1

Revision: 08.09.2017

Trade name: JLM Step 2 of 2 Cleaning fluid Intake Extreme Clean

(Contd. of page 1)

| Components: | | | |
|---|---------------------------------|--|-------|
| CAS: 9043-30-5 NLP: 500-027-2 | Isotridecylalcohol. ethoxylated | ☠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302 | ≤2.5% |
| CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44 | 2-(2-butoxyethoxy)ethanol | ⚠ Eye Irrit. 2, H319 | ≤2.5% |
| Ingredients according to detergents regulation (EC nr. 648/2004): | | | |
| non-ionic surfactants | | | <5% |

Additional information: For the wording of the listed hazard phrases See section 16.

SECTION 4: First Aid Measures

4.1 Description of first aid measures:

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After ingestion: Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting Measures

5.1 Extinguishing media:

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters:

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Remainder dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling:

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and tanks: No special requirements.

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

Further information about storage conditions: None.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.09.2017

Version number 1

Revision: 08.09.2017

Trade name: JLM Step 2 of 2 Cleaning fluid Intake Extreme Clean

7.3 Specific end use(s): No further relevant information available.

(Contd. of page 2)

SECTION 8: Exposure Controls/Personal Protection

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

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

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

| | |
|---------------------|--|
| WEL (Great Britain) | Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm |
| DNEL (EU) | Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm |
| IOELV (EU) | Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm |

DNELs

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

| | | |
|------------|------------------------------|-----------------------------------|
| Oral | Long-term - systemic effects | 1.3 mg/kg bw/day (Worker) |
| Dermal | Long-term - systemic effects | 20 mg/kg bw/day (Consumer) |
| | | 10 mg/kg bw/day (Worker) |
| Inhalative | Acute - systemic effects | 34 mg/m ³ (Worker) |
| | D-12 | 34 mg/m ³ (Consumer) |
| | Long-term - local effects | 67.3 mg/m ³ (Worker) |
| | Long-term - systemic effects | 34 mg/m ³ (Consumer) |
| | | 67.5 mg/m ³ (Worker) |
| | Acute - local effects | 50.6 mg/m ³ (Consumer) |

PNECs

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

| | |
|-----------------------|-----------|
| Fresh water | 1 mg/l |
| Marine water | 0.1 mg/l |
| Intermittent releases | 3.9 mg/l |
| STP | 200 mg/l |
| Fresh water sediment | 4.0 mg/kg |
| Marine sediment | 0.4 mg/kg |
| Soil | 0.4 mg/kg |

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: Not required.

Material of gloves: Not required

Penetration time of glove material: Not applicable.

Eye protection:



Tightly sealed goggles

(Contd. on page 4)

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 08.09.2017

Version number 1

Revision: 08.09.2017

Trade name: JLM Step 2 of 2 Cleaning fluid Intake Extreme Clean

Body protection: Protective work clothing

(Contd. of page 3)

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

General Information:

Appearance:

| | |
|-------------------------|-----------------|
| Form: | Fluid |
| Colour: | Colourless. |
| Odour: | Characteristic |
| Odour threshold: | Not determined. |

pH-value at 20°C: 7 - 7.5

Change in condition

| | |
|---|--------|
| Melting point/freezing point: | -15°C |
| Initial boiling point and boiling range: | >100°C |

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Ignition temperature: Not determined

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not self-igniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

| | |
|---------------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

Vapour pressure at 20°C: 23hPa

Density at 20°C: 0.98 - 1.02g/cm³

Relative density: Not determined.

Vapour density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with:

Water: Fully miscible.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

| | |
|-------------------|-----------------|
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

9.2 Other information: No further relevant information available.

SECTION 10: Stability and Reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.09.2017

Version number 1

Revision: 08.09.2017

Trade name: JLM Step 2 of 2 Cleaning fluid Intake Extreme Clean

(Contd. of page 4)

SECTION 11: Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not met.

| | | |
|---|------|----------------------|
| LD/LC50 values relevant for classification: | | |
| ATE (Acute Toxicity Estimates) | | |
| Oral | LD50 | 22381 mg/kg |
| 68439-46-3 Alcohol, C9-C11, ethoxylated | | |
| Oral | LD50 | 500 mg/kg (ATE) |
| 112-34-5 2-(2-butoxyethoxy)ethanol | | |
| Oral | LD50 | 5660 mg/kg (Rat) |
| Dermal | LD50 | 4000 mg/kg (rbt) |
| 160875-66-1 Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxy | | |
| Oral | LD50 | 301-2000 mg/kg (Rat) |

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

CMR effects (carcinogenic, mutagenic and reprotoxic):

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reprotoxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1 Toxicity:

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: Easily biodegradable

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods:

Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Contaminated packaging:

Recommendation: Packaging may be reused or recycled after cleaning.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport Information

14.1 UN-Number:

ADR/RID/ADN, IMDG, IATA

Void

(Contd. on page 6)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.09.2017

Version number 1

Revision: 08.09.2017

Trade name: JLM Step 2 of 2 Cleaning fluid Intake Extreme Clean

(Contd. of page 5)

| | |
|--|--|
| 14.2 UN proper shipping name: ADR/RID/ADN, IMDG, IATA | Void |
| 14.3 Transport hazard class(es): ADR/RID/ADN, IMDG, IATA Class: | Void |
| 14.4 Packing group: ADR/RID/ADN, IMDG, IATA | Void |
| 14.5 Environmental hazards: Marine pollutant: | No |
| 14.6 Special precautions for user: | Not applicable. |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: | Not applicable. |
| Transport/Additional information: | Not dangerous according to the above specifications. |
| UN "Model Regulation": | Void |

SECTION 15: Regulatory Information

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

Directive 2012/18/EU:
Named dangerous substances - ANNEX I: None of the ingredients are listed.

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

National regulations:
Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

This information is based on our present knowledge. This shall not constitute a guarantee for any properties of the product and shall not establish a legally valid contractual relationship.

Relevant phrases:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Department issuing SDS: Product Safety Department

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

EC50: Effective Concentration, 50 percent

IOELVS: Indicative Occupational Exposure Limit Values

mPa.s: milliPascal per second

Acute Tox. 4: Acute toxicity – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2