



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.10.2013

Version number 5

Revision: 07.10.2013

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

- **1.1 Product identifier**
- **Trade name:** Unirex N3
- **Article number:** 61213288-10
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Lubricant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Alfa Laval Tumba AB
Hans Stahles väg 7
S-147 80 Tumba
Sweden
+46 8 530 650 00
info.se@alfalaval.com
- Contact details for all countries are continually updated on our website.
Please visit www.alfalaval.com to access the information.
The latest version of Alfa Laval's SDS is available on our website.
- **Further information obtainable from:** sds.question@alfalaval.com
- **1.4 Emergency telephone number:**
For immediate, life-threatening emergencies, call 999
- For health advice and information (24h) dial 111 (NHS direct)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to EU guidelines:**
The product has been marked in accordance with EU Directives / respective national laws.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Special labelling of certain preparations:**
Contains 1-naphthylamine, n-phenyl and bariumsulphonate. May cause an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 2)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.10.2013

Version number 5

Revision: 07.10.2013

Trade name: Unirex N3

(Contd. of page 1)

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 90-30-2 EINECS: 201-983-0	N-1-naphthylaniline Xn R22; Xi R43 Acute Tox. 4, H302; Skin Sens. 1, H317	<1.0%
CAS: 25619-56-1 EINECS: 247-132-7	Bariumsulfonat Xn R20/22; Xi R38; Xi R43 Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317	<1.0%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove contact lenses, if present and easy to do. Continue rinsing.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do NOT induce vomiting.

Call a POISON CENTER or doctor/physician if you feel unwell.

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

High pressure injection under skin: local necrosis.

Accidental high-speed injection under the skin of this type of material can cause serious injury. Seek immediate medical attention if an incident of this nature occurs. It is possible that the wound at the injection site does not look severe at first glance, but if not treated it can lead to deformity or amputation of the affected part of the body.

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

Information on high pressure equipment:

Accidental speed injection under the skin of this type of material can cause serious injury. Seek immediately medical attention if an accident of this nature occurs. Even if the wound at the injection site does not look that severe at a first glance, it may lead to malformation or amputation of the affected

(Contd. on page 3)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.10.2013

Version number 5

Revision: 07.10.2013

Trade name: Unirex N3

limb if not treated directly.

(Contd. of page 2)

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - Foam
 - Fire-extinguishing powder
 - Carbon dioxide
 - Water haze
 - Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
 - Formation of toxic gases is possible during heating or in case of fire.
 - Carbon monoxide and carbon dioxide
 - Sulphur dioxide (SO₂)
 - Hydrocarbons
 - Aldehyde
- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information**
 - Cool endangered receptacles with water spray.
 - Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Particular danger of slipping on leaked/spilled product.
 - Avoid contact with spilled material.
 - Do not breathe vapour.
 - Avoid skin and eye contact
 - Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**
 - Remove from the water surface (e.g. skim or suck off).
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Send for recovery or disposal in suitable receptacles.
- **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.

GB

(Contd. on page 4)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.10.2013

Version number 5

Revision: 07.10.2013

Trade name: Unirex N3

(Contd. of page 3)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Avoid the formation of oil haze.
Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a well-ventilated place. Keep container tightly closed.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
Protect from humidity and water.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)**
Lubricant
Restricted to professional users.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

Ingredients with limit values that require monitoring at the workplace:	
Oil mist including oil smoke	
EXPOSURE CONTROLS	Long-term value: 1 mg/m ³ Reference: GESTIS United Kingdom

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Do not carry product impregnated cleaning cloths in trouser pockets.
Take off contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Use only in well-ventilated areas.
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several

(Contd. on page 5)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.10.2013

Version number 5

Revision: 07.10.2013

Trade name: Unirex N3

(Contd. of page 4)

substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Wear eye/face protection.**• Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties**• General Information****• Appearance:****Form:** Highly viscous**Colour:** Green**• Odour:** Characteristic**• Odour threshold:** Not determined.**• pH-value:** Not determined.**• Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** Undetermined.**• Flash point:** > 200 °C**• Flammability (solid, gaseous):** Not applicable.**• Ignition temperature:****Decomposition temperature:** Not determined.**• Self-igniting:** Product is not selfigniting.**• Danger of explosion:** Product does not present an explosion hazard.**• Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**• Vapour pressure at 20 °C:** <0.013 kPa**• Density:** 0.92 g/cm³**• Relative density** Not determined.**• Vapour density** Not determined.**• Evaporation rate** Not determined.**• Solubility in / Miscibility with
water:**

Slightly soluble.

• Partition coefficient (n-octanol/water): Not determined.

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.10.2013

Version number 5

Revision: 07.10.2013

Trade name: Unirex N3

(Contd. of page 5)

- | | |
|--|--|
| · Viscosity:
Dynamic:
Kinematic at 40 °C: | Not determined.
113 mm ² /s |
| · Solvent content:
Organic solvents: | 0.0 % |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** The material is stable under recommended storage and handling conditions.
- **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**
High heat
Keep away from sources of ignition - No smoking.
- **10.5 Incompatible materials:** Store away from oxidizing agents.
- **10.6 Hazardous decomposition products:** No further information, refer to section 5.

SECTION 11: Toxicological information

Irritation of skin	Skin corrosion/Irritation	- (rabbit) Low risk for skin irritation at normal room temperature. Based on test data for a structurally similar product.
--------------------	---------------------------	---

· 11.1 Information on toxicological effects

· **Acute toxicity:**

Oral	LD50	>5000 mg/kg (rat) Based on test data for a structurally similar product.
Dermal	LD50	>5000 mg/kg (rabbit) Based on test data for a structurally similar product.
Inhalative	Inhalation	>5000 mg/m ³ (rat) Based on test data for a structurally similar product.
Irritation of eyes	Irritation/Corrosion	- - (rabbit) Might give a slight, short discomfort in the eyes. Based on test data for a structurally similar product.

90-30-2 N-1-naphthylaniline

Oral	LD50	1625 mg/kg (rat)
------	------	------------------

(Contd. on page 7)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.10.2013

Version number 5

Revision: 07.10.2013

Trade name: Unirex N3

(Contd. of page 6)

• Primary irritant effect:**• on the skin:**

Prolonged and / or repeated skin contact combined with poor personal hygiene may cause inflammation of the skin in the form of dermatitis, eczema and oil acne.

Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.

• on the eye: Contact with eyes may result in mild irritation.**• Sensitization:**

The product contains one or more allergens.

Component concentrations in this formulation are not expected to cause skin sensitization, based on tests of components of similar formulations.

• Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

• CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Product contains mineral oils of types shown to be noncarcinogenic in animal skin-painting studies.

Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.

SECTION 12: Ecological information

• 12.1 Toxicity**• Aquatic toxicity:** No further relevant information available.**• 12.2 Persistence and degradability** The product is not easily, but potentially biodegradable.**• 12.3 Bioaccumulative potential** No further relevant information available.**• 12.4 Mobility in soil** Low solubility, product floats on water. Absorbs to soil particles.**• Additional ecological information:****• General notes:** Generally not hazardous for water**• 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** Must be specially treated adhering to official regulations.**• European waste catalogue**

The European Waste Catalogue (EWC) waste codes do not refer to product but to origin. The manufacturer is therefore unable to quote a waste code for products which are used in various industries. Any codes shown should be regarded as a recommendation to the user.

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 02 00	waste engine, gear and lubricating oils
13 02 06*	synthetic engine, gear and lubricating oils

(Contd. on page 8)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.10.2013

Version number 5

Revision: 07.10.2013

Trade name: Unirex N3

(Contd. of page 7)

- **Uncleaned packaging:**
- **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN-Number
· ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es)
· ADR, ADN, IMDG, IATA
· Class | Void |
| · 14.4 Packing group
· ADR, 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 MARPOL73/78 and the IBC Code | Not applicable. |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU regulation (EC) no 1272/2008 (CLP)
EC DIRECTIVE 2008/98/EC (waste)
EU Regulation (EC) no.1907/2006 (REACH)
- **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. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can

(Contd. on page 9)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.10.2013

Version number 5

Revision: 07.10.2013

Trade name: Unirex N3

(Contd. of page 8)

be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

· Relevant phrases

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- R20/22 Harmful by inhalation and if swallowed.
- R22 Harmful if swallowed.
- R38 Irritating to skin.
- R43 May cause sensitisation by skin contact.

- **Department issuing MSDS:** MACC -Materials & Chemistry Centre
- *** Data compared to the previous version altered.**

—GB—