

Safety Data Sheet acc. to OSHA HCS





Printing date 12/03/2013

Reviewed on 12/03/2013

1 Identification

- . **Product identifier**
- . **Trade name:** Cleaner
- . **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- . **Application of the substance / the mixture**
Thinner, Diluent
Cleaning agent/ Cleaner
- . **Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
Bison International
Dr.A.F.Philipsstraat 9
NL-4462 EW Goes
PO Box 160
NL-4460 AD Goes
tel. +31 88 3235700
fax. +31 88 3235800
e mail: msds@boltonadhesives.com
- . **Information department:** Bison QESH
- . **Emergency telephone number:** +31 88 3235700

2 Hazard(s) identification

- . **Classification of the substance or mixture**
- . **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 -  Harmful
Harmful: may cause lung damage if swallowed.
 -  Irritant
Irritating to eyes and skin.
 -  Highly flammable
Highly flammable.
 -  Dangerous for the environment
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Vapours may cause drowsiness and dizziness.
- . **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Has a narcotizing effect.
- . **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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. Label elements**. Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

. Code letter and hazard designation of product:

Harmful
Highly flammable
Dangerous for the environment

. Hazard-determining components of labeling:

Naphtha (petroleum), hydrotreated light
Naphtha (petroleum), hydrotreated light

. Risk phrases:

Highly flammable.
Irritating to eyes and skin.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness

. Safety phrases:

Keep away from sources of ignition - No smoking.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Use only in well-ventilated areas.
Use appropriate container to avoid environmental contamination.
Avoid release to the environment. Refer to special instructions/Safety data sheets
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

. Classification system:**. NFPA ratings (scale 0-4)**

Health = 1
Fire = 3
Reactivity = 0

. Other hazards**. Results of PBT and vPvB assessment**

- . PBT: Not applicable.
- . vPvB: Not applicable.

*** 3 Composition/information on ingredients****. Chemical characterization: Mixtures****. Description:** Cleansing agent**. Dangerous components:**

64742-49-0 Naphtha (petroleum), hydrotreated light	25-50%
141-78-6 ethyl acetate	10-25%
64742-49-0 Naphtha (petroleum), hydrotreated light	10-25%
78-93-3 methyl ethyl ketone	10-25%
110-54-3 n-hexane	≤ 2.5%

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

* 4 First-aid measures

- . **Description of first aid measures**
- . **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
- . **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- . **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- . **After swallowing:** Do not induce vomiting; immediately call for medical help.
- . **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- . **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* 5 Fire-fighting measures

- . **Extinguishing media**
- . **Suitable extinguishing agents:**
Water haze
Alcohol resistant foam
Fire-extinguishing powder
Carbon dioxide
- . **For safety reasons unsuitable extinguishing agents:** Water with full jet
- . **Special hazards arising from the substance or mixture**
No further relevant information available.
- . **Advice for firefighters**
- . **Protective equipment:** Mount respiratory protective device.
- . **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

* 6 Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- . **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- . **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- . **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.

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7 Handling and storage

. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

. Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

. Conditions for safe storage, including any incompatibilities

. Storage:

. Requirements to be met by storerooms and receptacles: Store in a cool location.**. Information about storage in one common storage facility:** Not required.

. Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection

. Additional information about design of technical systems:

No further data; see item 7.

. Control parameters

. Components with limit values that require monitoring at the workplace:

110-54-3 n-hexane

PEL () Long-term value: 1800 mg/m³, 500 ppmREL () Long-term value: 180 mg/m³, 50 ppmTLV () Long-term value: 176 mg/m³, 50 ppm

Skin; BEI

. Ingredients with biological limit values:

110-54-3 n-hexane

BEI () 0.4 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: 2.5-Hexanedione without hydrolysis

. Additional information:

The lists that were valid during the creation were used as basis.

. Exposure controls

. Personal protective equipment:

. General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

. Breathing equipment: Not required.

. Protection of hands:



Protective gloves

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Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 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.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

PVC or PE gloves

Eye protection:

Tightly sealed goggles

Body protection:

Use protective suit.

Solvent resistant protective clothing

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:****Form:**

Fluid

Color:

According to product specification

Odor:

Characteristic

Odour threshold:

Not determined.

pH-value:

Not determined.

Change in condition**Melting point/Melting range:**

Undetermined.

Boiling point/Boiling range:

60 °C (140 °F)

Flash point:

< 0 °C (< 32 °F)

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

460 °C (860 °F)

Decomposition temperature:

Not determined.

Auto igniting:

Product is not selfigniting.

Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Explosion limits:**Lower:**

1.8 Vol %

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Upper:	11.5 Vol %
. Vapor pressure at 20 °C (68 °F):	105 hPa (79 mm Hg)
. Density at 20 °C (68 °F):	0.78796 g/cm ³ (6.576 lbs/gal)
. Relative density	Not determined.
. Vapour density	Not determined.
. Evaporation rate	Not determined.
. Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
. Partition coefficient (n-octanol/ water):	Not determined.
. Viscosity:	
Dynamic at 20 °C (68 °F):	5 mPas
Kinematic:	Not determined.
Organic solvents:	100.0 %
. Other information	No further relevant information available.

* 10 Stability and reactivity

- . Reactivity
- . Chemical stability
- . Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- . Possibility of hazardous reactions No dangerous reactions known.
- . Conditions to avoid No further relevant information available.
- . Incompatible materials: No further relevant information available.
- . Hazardous decomposition products: Danger of toxic pyrolysis products.

* 11 Toxicological information

- . Information on toxicological effects
- . Acute toxicity:
- . Primary irritant effect:
 - . on the skin: Irritant to skin and mucous membranes.
 - . on the eye: Irritating effect.
- . Sensitization: No sensitizing effects known.
- . Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- . Carcinogenic categories
- . IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
- . NTP (National Toxicology Program)
None of the ingredients is listed.

* 12 Ecological information

- . Toxicity
- . Aquatic toxicity: No further relevant information available.
- . Persistence and degradability No further relevant information available.
- . Bioaccumulative potential No further relevant information available.
- . Mobility in soil No further relevant information available.

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- . **Ecotoxicological effects:**
- . **Remark:** Toxic for fish
- . **Additional ecological information:**
- . **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **Other adverse effects** No further relevant information available.

13 Disposal considerations

- . **Waste treatment methods**
- . **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- . **Uncleaned packagings:**
- . **Recommendation:**
Disposal must be made according to official regulations.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- . **UN-Number**
- . **DOT, ADR, IMDG, IATA** UN1993
- . **UN proper shipping name**
- . **DOT** Flammable liquids, n.o.s. (Cyclohexane, Ethyl acetate)
- . **ADR** 1993 Flammable liquids, n.o.s., special provision 640D (Cyclohexane, Ethyl acetate), ENVIRONMENTALLY HAZARDOUS
- . **IMDG** FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE, ETHYL ACETATE), MARINE POLLUTANT
- . **IATA** FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE, ETHYL ACETATE)
- . **Transport hazard class(es)**
- . **DOT**



- . **Class** 3 Flammable liquids.
- . **Label** 3

. **ADR**

- . **Class** 3 (F1) Flammable liquids

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. Label 3

. IMDG



. Class 3 Flammable liquids.

. Label 3

. IATA



. Class 3 Flammable liquids.

. Label 3

. Packing group

. DOT, ADR, IMDG, IATA II

. Environmental hazards: Product contains environmentally hazardous substances: cyclohexane ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID

. Marine pollutant: Yes

. Special marking (ADR): Symbol (fish and tree)

. Special precautions for user: Symbol (fish and tree)

. Danger code (Kemler): Warning: Flammable liquids

. EMS Number: 33

. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code F-E, S-E

. Transport/Additional information: Not applicable.

. DOT

. Remarks: Special marking with the symbol (fish and tree).

. IMDG

. Remarks: Under certain conditions substances in Class 3 (flammable liquids) can be classified in packinggroup III. See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2

15 Regulatory information

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

. SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

. SARA Section 313 (specific toxic chemical listings)

78-93-3 methyl ethyl ketone

110-54-3 n-hexane

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- . **TSCA (Toxic Substances Control Act)**
All ingredients are listed.
- . **Prop 65 - Chemicals known to cause cancer**
None of the ingredients is listed.
- . **Cancerogenity categories**
- . **EPA (Environmental Protection Agency)**
78-93-3 methyl ethyl ketone: 1
110-54-3 n-hexane: II
- . **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.
- . **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.
- . **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.
- . **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.
- . **Product related hazard informations:**
The product has been classified and marked in accordance with directives on hazardous materials.
- . **Hazard symbols:**
Harmful
Highly flammable
Dangerous for the environment
- . **Hazard-determining components of labeling:**
Naphtha (petroleum), hydrotreated light
Naphtha (petroleum), hydrotreated light
- . **Risk phrases:**
Highly flammable.
Irritating to eyes and skin.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness
- . **Safety phrases:**
Keep away from sources of ignition - No smoking.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Use only in well-ventilated areas.
Use appropriate container to avoid environmental contamination.
Avoid release to the environment. Refer to special instructions/Safety data sheets
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

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- . **National regulations:**
- . **Technical instructions (air):**
- . **Class Share in %**
 - . **I** ≤ 2,5
 - . **NK** 50-100
- . **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- . **Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

* **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.

- . **Department issuing MSDS:** QESH Department
- . **Contact:** Reach coördinator
- . *** Data compared to the previous version altered.**

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