

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

Printing date 05.01.2011

Version number 1

Revision: 05.01.2011

1 Identification of the substance/mixture and of the company/undertaking**Product identifier****Trade name:** CENTER BRAND PVC CLEANER - F 16210**CAS Number:**

78-93-3

EINECS Number:

201-159-0

Index number:

606-002-00-3

Relevant identified uses of the substance or mixture and uses advised against**Application of the substance / the preparation** 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. +31 113 235700
fax. +31 113 232077
e mail: msds@bison.boltongroup.nl**Further information obtainable from:** Bison R&D**Emergency telephone number:** +31 113 235700**2 Hazards identification****Classification of the substance or mixture**

GHS02 flame

H225 Highly flammable liquid and vapour.



GHS07

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36: Irritating to eyes.



F; Highly flammable

R11: Highly flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotizing effect.

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

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

. Code letter and hazard designation of product:

Xi Irritant

F Highly flammable

. Risk phrases:

11 Highly flammable.

36 Irritating to eyes.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

. Safety phrases:

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

. Other hazards**. Results of PBT and vPvB assessment****. PBT:** Not applicable.**. vPvB:** Not applicable.**3 Composition/information on ingredients****. Chemical characterization: Substances****. CAS No. Description**

78-93-3 methyl ethyl ketone

. Identification number(s)**. EINECS Number:** 201-159-0**. Index number:** 606-002-00-3**4 First aid measures****. 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. If symptoms persist, consult a doctor.

. After swallowing: Do not induce vomiting; call for medical help immediately.**5 Firefighting 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**. Advice for firefighters****. Protective equipment:** Mount respiratory protective device.

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. 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.

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.

7 Handling and storage**. Handling:****. 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 fire - and explosion protection:

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.

8 Exposure controls/personal protection**. Additional information about design of technical facilities:**

No further data; see item 7.

. Control parameters**. Ingredients with limit values that require monitoring at the workplace:****78-93-3 methyl ethyl ketone**WEL Short-term value: 899 mg/m³, 300 ppmLong-term value: 600 mg/m³, 200 ppm

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. Additional information: The lists valid during the making were used as basis.**. Exposure controls****. Personal protective equipment:****. General protective and hygienic measures:**

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

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.

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Avoid contact with the eyes and skin.

- . **Respiratory protection:** Not required.
- . **Protection of hands:**



Protective gloves

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.

- . **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:** Solvent resistant protective clothing

9 Physical and chemical properties

- . **Information on basic physical and chemical properties**

- . **General Information**

- . **Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Like ketone

- . **Change in condition**

Melting point/Melting range:	-86.3°C
Boiling point/Boiling range:	79°C

- . **Flash point:** < 0°C
- . **Ignition temperature:** 514°C
- . **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- . **Explosion limits:**

Lower:	1.8 Vol %
Upper:	11.5 Vol %
- . **Vapour pressure at 20°C:** 105 hPa
- . **Density at 20°C:** 0.81 g/cm³
- . **Solubility in / Miscibility with water at 20°C:** 290 g/l

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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.
- . **Hazardous decomposition products:** Danger of forming toxic pyrolysis products.

11 Toxicological information

- . **Information on toxicological effects**
- . **Acute toxicity:**
- . **LD/LC50 values relevant for classification:**
78-93-3 methyl ethyl ketone
Oral LD50 3300 mg/kg (rat)
Dermal LD50 5000 mg/kg (rbt)
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** Irritating effect.
- . **Sensitization:** No sensitizing effects known.

12 Ecological information

- . **Toxicity**
- . **Acquatic toxicity:** No further relevant information available.
- . **Additional ecological information:**
- . **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

13 Disposal considerations

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

14 Transport information

- . **Land transport ADR/RID (cross-border)**



- . **ADR/RID class:** 3 (F1) Flammable liquids.
- . **Danger code (Kemler):** 33
- . **UN-Number:** 1193
- . **Packaging group:** II

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- . Hazard label 3
- . UN proper shipping name: 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE)
- . Limited quantities (LQ) LQ4
- . Transport category 2
- . Tunnel restriction code D/E
- . Maritime transport IMDG:



- . IMDG Class: 3
- . UN Number: 1193
- . Label 3
- . Packaging group: II
- . EMS Number: F-E, S-D
- . Marine pollutant: No
- . Proper shipping name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)
- . Air transport ICAO-TI and IATA-DGR:



- . ICAO/IATA Class: 3
- . UN/ID Number: 1193
- . Label 3
- . Packaging group: II
- . Proper shipping name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)
- . UN "Model Regulation": UN1193, ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II
- . Special precautions for user Warning: Flammable liquids.
- . Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

- . Safety, health and environmental regulations/legislation specific for the substance or mixture
- . Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- . Code letter and hazard designation of product:
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- . Safety phrases:
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26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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51 Use only in well-ventilated areas.

. National regulations:**. Technical instructions (air):****. Class Share in %****. NK 50-100****. Waterhazard class:**

Water hazard class 1 (Assessment by list): slightly 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: R & D laboratory**. Contact: M.L. de Jager****. * Data compared to the previous version altered.**

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