

Material Safety Data Sheet D2000 - PURIFIER

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Section 1 – Identification of the Substance/Preparation and of the Company/Undertaking

Product Name: Purifier

Chemical Name: Solvent Mixture

Family: Cleansing Agents

Product Use:

Product #: D2000



MSDS Initial Approval 2/20/2001
Date:

MSDS Prepared by: BSQ

Manufacturer: CNC International BV
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Section 2 - Composition/Information on Ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:**

CAS: 64-17-5 EINECS : 200-578-6	Ethanol (Ethyl Alcohol)		F ; R 11	70 %
Cas.nr: 78-93-3	Methylethylketon		F ; R 11	0.5 %

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

Section 3 - Hazards Identification

• Hazard description



F Highly flammable

• Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

R 11 Highly Flammable.

• Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Section 4 - First Aid Measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly
- **After eye contact:** Rinse opened eye for several minutes under running water
- **After swallowing:** If symptoms persist consult doctor

Section 5 - Fire Fighting Measures

- **Suitable extinguishing agents:**

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards caused by the substance, its products of combustion or resulting gases:**

Can form explosive gas-air mixtures.

- **Protective equipment:** Wear self-contained respiratory protective device.

- **Additional information:**

Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Section 6 - Accidental Release Measures

- **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

- **Measures for environmental protection:**

Prevent seepage into sewage system, workpits and cellars.

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

Inform respective authorities in case of seepage into water course or sewage system.

- **Measures for cleaning/collecting:**

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

Ensure adequate ventilation.

Section 7 - Handling and Storage

Handling:

Information for safe handling:

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Information about fire – and explosion protection:

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

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 container tightly sealed.

Store in a cool, dry conditions in well seal receptacles.

Section 8 - Exposure Controls / Personal Protective Equipment

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

Ingredients with limit values that require monitoring at the workplace:

64-17-5 Ethanol

OES: Long-term value: 1920 mg/m³, 1000 ppm

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

Personal protective equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Protection of hands: rubber gloves

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

Body protection: Protective work clothing.

Section 9 - Physical and Chemical Properties

General Information	
Form:	Fluid
Colour:	Colourless
Odour:	Like alcohol
Change in condition:	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	78° C
Setting temperature/rang:	-121° C
Flash Point:	13 ° C
Ignition temperature:	425.0 ° C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion Limits:	
Lower:	3.5 Vol %
Upper:	15.0 Vol %
Vapour pressure at 20° C	59.0 hPa

Density at 20° C	0.791 g/cm ³
Solubility in / Miscibility with water:	Fully miscible.
Segregation coefficient (n-octanol/water):	-0.32 log POW
Viscosity: Dynamic at 20° C	12 mPas
Kinematic at 20° C:	<20 s (DIN 53211/4)

Section 10 - Stability and Reactivity

Thermal decomposition/conditions to be avoided:

No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

Section 11 - Toxicological Information

Acute toxicity:

LD/LC50 values relevant for classification:

64-17-5 ethanol

Oral	LD50	6200-17800 mg/kg (rat)
Dermal	LD50	>20000 mg/kg (rabbit)
Inhalative	LC50/4 h	>8000 mg/l (rat)

Primary irritant effect:

- **on the skin:** No irritant effect.
- **On the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

Section 12 - Ecological Information

General notes:

Water hazard class 1 (German Regulations) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Section 13 - Disposable Considerations

Product:

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.

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

Section 14 - Transport Information

-	Load transport ADR/RID (cross-border)
ADR/RID class:	3 Flammable liquids
Item:	3b

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anger code (Kemler)	33
UN-Number	1170
Hazard label :	3
Description of goods:	1170 ETHANOL (ETHYL ALCOHOL), mixture
- Maritime transport IMDG	
IMDG Class:	3.2
Page	3219
UN Number:	1170
Label	3
Packaging group:	II
EMS Number:	F-E, S-D
MFAG:	305
Marine pollutant:	No
Proper shipping name:	Ethanol (Ehtyl alcohol), mixture
- Air transport ICAO-TI and IATA-DGR:	
ICAO/IATA Class	3
UN/ID Number:	1170
Label:	3
Packaging group:	II
Proper shipping name:	Ethanol (Ethyl alcohol), mixture

Section 15 - Regulatory Information

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:

F Highly flammable

Risk phrases:

11 Highly flammable

Safety phrases:

7/9 Keep container tightly closed and in a well-ventilated place.

16 Keep away from sources of ignition – No smoking.

National regulations:

Technical instructions (air):

Class:	Share in %
NK	70.0

- **Waterhazard class:** Water hazard class 1 (self-assessment): slightly hazardous for water.

Section 16 - Other Information

The information provided in these documents is based on our present state of knowledge of the product and is given in good faith and to the best of our experience. However, it should not be construed as a technical specification or as guaranteeing specific properties. In no event we will be responsible for damages or effects of any nature whatsoever, either express or implied, resulting from the use of

this information. It is the own responsibility of the consignee and the user of the product to comply with all prevailing and applicable laws, regulations and directives. They should also make their own determination as to the suitability of the product for a particular use or application.

Relevant R-phrases

11 Highly flammable.