

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

- **1.1 Product identifier**
- Trade name XE2 Separating Agent
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Solvents
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SNX Technologies
PO Box 55 315 Industrial Blvd.
Sauk Rapids, MN 56379
Tel: 1-320-380-3800
E-Mail: info@snxtechnologies.com
- **Informing department:** Product safety department
- **1.4 Emergency telephone number:**
Infotrac
Tel: 1-800-535-5053

SECTION 2: Hazards identification

- **2 Classification according to Regulation (EC) No 1272/2008**
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
Eye Irrit. 2 H319 Causes serious eye irritation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
F; Highly flammable
R11: Highly flammable.
- **Classification system:**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS02

GHS07

(Contd. on page 2)

Trade name XE2 Separating Agent

(Contd. of page 1)

- Signal word *Danger*

- Hazard statements

*H225 Highly flammable liquid and vapor.**H319 Causes serious eye irritation.*

- Precautionary statements

*P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**P280 Wear protective gloves/protective clothing/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 irritant persists: Get medical advice/attention**P403+P233 Store in a well-ventilated place. Keep container tightly closed.*

- 2.3 Other hazards

- Results of PBT and vPvB assessment



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

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- Description: *Mixture of the following components*

- Dangerous components:

CAS: 64-17-5	Ethanol	50-100%
EINECS: 200-578-6	F R11	
Reg.nr.: 01-2119457610-43	 Flam. Liq. 2, H225;  Eye Irrit. 2, H319	

- 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 advice: *Instantly remove any clothing soiled by the product.*

- After inhalation

Provide fresh-air circulation. If symptoms continue, consult a doctor. In case of respiratory failure or breathing irregularities, commence resuscitation or oxygen inhalation and immediately consult a doctor. In case of unconsciousness, place and transport the patient in a recovery position.

- After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.- After eye contact *Rinse immediately opened eye for several minutes under running water. Then consult doctor.*

- After swallowing

*Do not induce vomiting; instantly call for medical help.**If vomiting occurs spontaneously, keep head below hips to prevent aspiration.*

(Contd. on page 2)

Trade name XE2 Separating Agent

(Contd. of page 2)

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

Dizziness, double vision and other typical symptoms of alcoholic intoxication. Vomiting, unconsciousness. Irritation of skin, eyes and airways.

- Information for doctor

Cleaning of the stomach should only be carried out with endotracheal intubation. Danger of aspiration. Renew lipid coating of the skin in order to protect against dermatitis. Symptomatic treatment.

- 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**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents *Water with a full water jet.***- 5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance. Avoid contact with combustible substances.

- Advice for Firefighters**- - Protective equipment:**

See section 8.

Wear full protective suit with self-contained breathing apparatus.

- Additional information

Dispose of fire debris and contaminated firefighting water in accordance with official regulations. Endangered containers in the surrounding area should be cooled with a water-hose.

SECTION 6: Accidental release measures**- 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep off unprotected persons

Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.

- 6.2 Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.

If large amounts are released, the authorities must be informed.

- 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.

Contaminated material has to be disposed as waste (see item 13).

- 6.4 Reference to other sections

See Section 7 for information on safe handling

(Contd. on page 4)

Trade name XE2 Separating Agent

(Contd. of page 3)

*See Section 8 for information on personal protection equipment.**See Section 13 for information on disposal.**Danger of explosion***SECTION 7: Handling and storage****- 7.1 Precautions for safe handling***Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.***- Information about protection against explosions and res:***Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.***- 7.2 Conditions for safe storage, including any incompatibilities****- Storage***Protect against direct sunlight, other sources of heat and ignition.**Keep containers tightly closed. Store in cool, dry conditions.***- Requirements to be met by storerooms and containers:***Observe official regulations on storage and handling of water hazardous substances**Store in cool location.***- Information about storage in one common storage facility:***Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.***- Further information about storage conditions: Keep container tightly sealed****- 7.3 Specific end use(s) No further relevant information available.****SECTION 8: Exposure controls/personal protection****- Additional information about design of technical systems:***Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.***- 8.1 Control parameters****- Components with critical values that require monitoring at the workplace:****64-17-5 ethanol (50-100%)**WEL Long-term value: 1920 mg/m³, 1000 ppm**56-81-5 glycerol (2.5-10%)**WEL Short-term value: 10 mg/m³**- DNELs****64-17-5 ethanol**

Oral	DNEL (population)	87 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	206 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	343 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	950 mg/m ³ (Acute - local effects)
Inhalative		114 mg/m ³ (Long-term - systemic effects)
	DNEL (worker)	1900 mg/m ³ (Acute - local effects)
		950 mg/m ³ (Long-term - systemic effects)

(Contd. on page 5)

Trade name XE2 Separating Agent

(Contd. of page 4)

- PNECs	
<i>PNEC</i>	0.63 mg/kg dw (soil)
<i>PNEC STP</i>	580 mg/l (380)
<i>PNEC aqua</i>	0.96 mg/l (fresh water)
	0.79 mg/l (marine water)
	2.75 mg/l (intermittent releases)
<i>PNEC sediment</i>	3.6 mg/kg dw (fresh water)
	2.9 mg/kg dw (marine water)

- **Additional information:** *The lists that were valid during the compilation were used as basis.*

- **8.2 Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

- **Breathing equipment:** *Not necessary if room is well-ventilated.*

- **Protection of hands:** *Protective gloves.*

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 substances, the resistance of the glove material cannot 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 gloves made of the following materials are suitable:**

Butyl rubber, BR

Nitrile rubber, NBR

- **Eye protection:** **Tightly sealed safety glasses.**

- **Body protection:**

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

(Contd. on page 6)

Trade name XE2 Separating Agent

(Contd. of page 5)

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties	
- General Information	
- Appearance:	
Form:	<i>Fluid</i>
Color:	<i>Yellow</i>
- Smell:	<i>Lemon</i>
- Odor threshold:	<i>Not determined.</i>
- pH-value:	<i>not applicable</i>
Change in condition	
Melting point/Melting range:	<i>Not determined</i>
Boiling point/Boiling range:	<i>78 °C</i>
- Flash point:	<i>1 °C</i>
- Inflammability (solid, gaseous)	<i>Not applicable</i>
- Ignition temperature:	<i>425 °C</i>
- Decomposition temperature:	<i>Not determined.</i>
- Self-inflammability:	<i>Product is not self-igniting.</i>
- Danger of explosion:	<i>Product is not explosive. However, formation of explosive air/steam mixtures is possible.</i>
- Critical values for explosion:	
Lower:	<i>3.5 Vol %</i>
Upper:	<i>15.0 Vol %</i>
- Vapor pressure at 20 °C:	<i>57 hPa</i>
- Density at 20 °C	<i>0.801 g/cm³</i>
- Relative density	<i>Not determined.</i>
- Vapour density	<i>Not determined.</i>
- Evaporation rate	<i>Not determined.</i>
- Solubility in / Miscibility with Water:	<i>Partly miscible</i>
- Partition coefficient (n-octanol/water):	<i>Not determined.</i>
- Viscosity:	
dynamic:	<i>Not determined.</i>
kinematic:	<i>Not determined.</i>
- 9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

- 10.1 Reactivity**
- 10.2 Chemical stability**

(Contd. of page7)

Trade name XE2 Separating Agent

(Contd. of page 6)

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
To avoid: warmth, flames, sparks
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *strong oxidizing agents*
- **10.6 Hazardous decomposition products:** *Formation of carbon monoxide and carbon dioxide in case of fire.*

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** *Slight irritant effect on skin and mucous membranes*
- **on the eye:** *Irritant effect.*
- **Sensitization:** *No sensitizing effect known.*
- **Subacute to chronic toxicity:** *Can lead to liver damage*
- **Additional toxicological information:**
Inhalation of concentrated vapors as well as oral intake will lead to anesthesia-like conditions and headache, dizziness, etc.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** *No further relevant information available*
- **12.2 Persistence and degradability** *No further relevant information available.*
- **12.3 Bioaccumulative potential** *No further relevant information available.*
- **12.4 Mobility in soil** *No further relevant information available.*
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly 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**
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

(Contd. of page 8)

Trade name XE2 Separating Agent

(Contd. of page 7)

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

If possible, send to be recycled, otherwise burn or deposit in a certified facility.

Contaminated water to separate by separator and dispose of in line with administrative regulations.

- Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- Uncleaned packagings: Disposal must be made according to official regulations.**- Recommendation:**

After complete emptying and cleaning, send to be reconditioned or recycled.

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

Caution: Leftovers in the containers may cause the risk of explosion.

Uncleaned containers should not be perforated, cut or welded.

SECTION 14: Transport information

- 14.1 UN-Number	
- ADR, IMDG, IATA	UN1170
- 14.2 UN proper shipping name	
- ADR	1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
- IMDG	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
- IATA	ETHANOL SOLUTION
- 14.3 Transport hazard class(es)	
- ADR	
- Class	3 (F1) Flammable liquids.
- Label	3
- IMDG, IATA	
- Class	3 Flammable liquids.
- Label	3
- 14.4 Packing group	
- ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	
- Warning:	Warning: Flammable liquids.
- Kemler Number:	33
- EMS Number:	F-E,S-E
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable

(Contd. on page 9)

Trade name XE2 Separating Agent

(Contd. of page 8)

- ADR	
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- IMDG	
- Limited quantities (LQ)	1L
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN1170, ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Information about limitation of use: *Employment restrictions concerning young persons must be observed.*
- Decree to be applied in case of technical fault:
Material group 2 (light flammable liquids) mixing-swell to be observed
- Technical instructions (air):

Class	Share in %
NK	50-100
- VOC 96.98% volatile organic compounds (Council Directive 2010/75/EC).
- Water hazard class:
Water hazard class 1 (self-assessment according to German VwVwS (Regulations for water-hazardous substances): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
R11 Highly flammable.
- Department issuing data specification sheet: *see item 1: Informing department*
- Abbreviations and acronyms:
LEV: Local Exhaust Ventilation
RPE: Respiratory Protective Equipment
RCR: Risk Characterization Ratio (RCR= PEC/PNEC)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association

(Contd. on page 10)

Trade name XE2 Separating Agent

(Contd. of page 9)

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals**CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)**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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**Flam. Liq. 2: Flammable liquids, Hazard Category 2**Flam. Liq. 3: Flammable liquids, Hazard Category 3**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3**Asp. Tox. 1: Aspiration hazard, Hazard Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*