Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 12/14/2000 Reviewed on 11/28/2000

* 1 **Identification of substance:**

· **Product details:**

· **Trade name:** SOLVEX 1

· **Manufacturer/Supplier:**
SEITZ GmbH
Chemische Fabrik
Gutenbergstr. 3
D-65830 Kriftel

· **Information department:**
CHEM-TEL Inc.
10770 North 46th Street STE. B100
Temple Terrace
Tampa Florida 33617
· **Emergency information:** 1-800-255-3924

2 **Composition/Data on components:**

· **Chemical characterization**
· **Description:**
Mixture of the substances listed below with non-hazardous ingredients.

CAS-No.	Components:	
64742-48-9	isoalkanes	10 - 30 %
68411-30-3	linear alkylbenzenesulfonic acid salt	10 - 30 %
112-34-5	diethylene glycol monobutylether	< 5 %

3 **Hazards identification**

· **Hazard description:**
Irritant liquid
Combustible liquid
· **Information pertaining to particular dangers for man and environment**
Irritating to eyes and skin.
· **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
· **NFPA ratings (scale 0-4)**

Health = 1
Fire = 2
Reactivity = 0

4 **First aid measures**

· **General information**
Immediately remove any clothing soiled by the product.
Remove casualties from exposure.
Keep unprotected persons away.
· **After inhalation**
Supply fresh air; consult doctor in case of complaints.
· **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
· **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.

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· **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

· **Suitable extinguishing agents**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards caused by the material, its products of combustion or resulting gases:**
In certain fire conditions, traces of other toxic gases cannot be excluded.
· **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid contact with eyes and skin.
· **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
· **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.

7 Handling and storage

· **Handling**
· **Information for safe handling:**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with eyes and skin.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Storage**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Do not use light alloy receptacles.
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.
Do not store together with alkalis (caustic solutions).
· **Further information about storage conditions:**
Avoid contact with air / oxygen (formation of peroxide).
Protect from heat and direct sunlight.
Protect from frost.
Time of storage: max. 18 month
Store in cool, dry conditions in well sealed receptacles.
· **Class according to regulation on flammable liquids:** A III

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* 8 **Exposure controls and personal protection**

· **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:
64742-48-9 isoalkanes
ACGIH TLV: 1000 mg/m³, 200 ppm
· **Additional information:**
The lists that were valid during the creation were used as basis.

· **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.
Do not inhale gases / fumes / aerosols.
Use skin protection cream for skin protection.
Do not eat, drink, smoke or sniff while working.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
Use suitable respiratory protective device in case of insufficient ventilation.
Fiter A
· **Protection of hands:** Solvent resistant gloves
· **Eye protection:** Safety glasses
· **Body protection:** Protective work clothing.

9 **Physical and chemical properties:**

· **Form:** Fluid
· **Color:** Yellow
· **Odor:** Light
·

	Value/Range	Unit	Method
· **Change in condition**			
· **Melting point/Melting range:**	undetermined		
· **Boiling point/Boiling range:**	undetermined		
· **Flash point:**	163°F / 73 ° C		ASTM D 93c.c
· **Auto igniting:**	Product is not selfigniting.		
· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.			
· **Density:** at 20 ° C	0.920 - 0.930 g/cm3		ISO 2811
· **Solubility in / Miscibility with**			
· **Water:**	Emulsifiable		
· **pH-value:** (100 g/l) at 20 ° C	6.8 - 7.2		

10 **Stability and reactivity**

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.

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· **Dangerous reactions**
Reacts with strong oxidizing agents.
Reacts with strong alkali
Possible formation of peroxide
· **Dangerous products of decomposition:**
No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**
LD/Lc50 values that are relevant for classification:
64742-48-9 isoalkanes
Oral: LD50: >5000 mg/kg (rat)
Dermal: LD50: >3000 mg/kg (rabbit)

68411-30-3 linear alkylbenzenesulfonic acid salt
Oral: LD50: 2550 mg/kg (rat)

112-34-5 diethylene glycol monobutylether
Oral: LD50: 6560 mg/kg (rat)
Dermal: LD50: 4120 mg/kg (rabbit)
· **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
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
At present there are no ecotoxicological assessments.

13 Waste Disposal Method

· **Product and uncleaned packagings:**
· **Recommendation:**
Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

14 Transport information

· **DOT regulations:**
· **Hazard class:** -

· **Land transport ADR/RID (cross-border)**
· **ADR/RID class:** -

· **Maritime transport IMDG:**

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· **IMDG Class:** -

· **Air transport ICAO-TI and IATA-DGR:**
· **ICAO/IATA Class:** -

· **Transport/Additional information:**
Not dangerous according to the above specifications.

* 15 **Regulatory information (Not meant to be all-inclusive/selected regulations represented)**

· **Product related hazard informations:**
The product has been marked in accordance with national laws.
Observe the general safety regulations when handling chemicals

· **Hazard symbols:**
Irritant
Combustible

· **Risk phrases:** Irritating to eyes and skin.

· **Safety phrases:**
Keep out of the reach of children.
When using do not eat or drink.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Wear suitable gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately.
If swallowed, seek medical advice immediately and show this container or label.
· **National regulations**

· **Water hazard class:**
Water hazard class 2 (Self-assessment): hazardous for water.
· **Other regulations, limitations and prohibitive regulations**
The product has been designed for professional use only.
· **Please note:**
The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that their activities comply with Federal, State or provincial and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.
· **U.S. Regulations**
· **SARA 313 Information:**
This product contains the following substances are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CAS-No.:	Chemical name:
void	

· **SARA Hazard Category:**
This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
void

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- **Toxic Substances Control Act (TSCA):**
  All ingredients are listed on the TSCA inventory.
- **California proposition 65:**
  The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986.
  This product contains / does not contain chemical(s) known to the State of California to cause cancer and/or to cause reproductive toxicity.
  Chemicals known to cause cancer:
  void
  Chemicals known to cause reproductive toxicity:
  void
- **State right-to-know**
  The following product component(s)is/are cited on certain State lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.
- **CAS-No.: Chemical name: LIST:** void
- **OSHA hazard communication standard:**
  This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- **Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund):**
  This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:
- **CAS-No.: Chemical name:** void
- **Canadian regulations**
- **WHMIS information:**
  The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:
  D2B - Eye and/or skin irritant
  Refer elswhere in the MSDS for specific warnings and safe handling information. Refer to the empoyer's workplace education program.
  B3 - Combustible liquid
- **CPR statement:**
  This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
- **CAS-No.: Components:**
  68411-30-3 linear alkylbenzenesulfonic acid salt
  112-34-5 diethylene glycol monobutylether

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.

- **Contact:** R. Döring

—USA—

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 12/14/2000 Reviewed on 12/14/2000

* 1 **Identification of substance:**

· **Product details:**

· **Trade name:** SOLVEX 2

· **Manufacturer/Supplier:**
SEITZ GmbH
Chemische Fabrik
Gutenbergstr. 3
D-65830 Kriftel

· **Information department:**
CHEM-TEL Inc.
10770 North 46th Street STE. B100
Temple Terrace
Tampa Florida 33617
· **Emergency information:** 1-800-255-3924

2 **Composition/Data on components:**

· **Chemical characterization**
· **Description:**
Mixture of the substances listed below with non-hazardous ingredients.

CAS-No.	Components:	
68411-30-3	linear alkylbenzenesulfonic acid salt	20 - 40 %
112-34-5	diethylene glycol monobutylether	10 - 30 %
143-18-0	potassium oleate	< 5 %
64742-48-9	isoalkanes	< 5 %
1336-21-6	ammonium hydroxide	< 1 %

3 **Hazards identification**

· **Hazard description:**
Irritant liquid
· **Information pertaining to particular dangers for man and environment**
Irritating to eyes and skin.
· **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
· **NFPA ratings (scale 0-4)**

Health = 1
Fire = 0
Reactivity = 0

4 **First aid measures**

· **General information**
Immediately remove any clothing soiled by the product.
Remove casualties from exposure.
Keep unprotected persons away.
· **After inhalation**
Supply fresh air; consult doctor in case of complaints.
· **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.

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· **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

· **Suitable extinguishing agents**
CO_2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards caused by the material, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Sulphur oxides (SOX)
Carbon monoxide and carbon dioxide (CO,CO2)
In certain fire conditions, traces of other toxic gases cannot be excluded.
· **Protective equipment:**
Mount respiratory protective device.
Do not inhale explosion gases or combustion gases.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with eyes and skin.
· **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
· **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.

7 Handling and storage

· **Handling**
· **Information for safe handling:**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with eyes and skin.
· **Information about protection against explosions and fires:**
No special measures required.

· **Storage**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Do not use light alloy receptacles.
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with oxidizing and acidic materials.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Protect from frost.
Time of storage: max. 18 month
Avoid contact with air / oxygen (formation of peroxide).
· **Class according to regulation on flammable liquids:** Void

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Trade name: SOLVEX 2

* 8 **Exposure controls and personal protection**

· **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:
64742-48-9 isoalkanes
ACGIH TLV: 1000 mg/m³, 200 ppm
· **Additional information:**
The lists that were valid during the creation were used as basis.

· **Personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
Do not eat, drink, smoke or sniff while working.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.
· **Breathing equipment:** Not necessary if room is well-ventilated.
· **Protection of hands:** Protective gloves.
· **Eye protection:** Safety glasses
· **Body protection:** Protective work clothing.

9 **Physical and chemical properties:**

· **Form:** Fluid
· **Color:** Yellowish
· **Odor:** Characteristic

	Value/Range	Unit	Method
· **Change in condition**			
· **Melting point/Melting range:**	undetermined		
· **Boiling point/Boiling range:**	undetermined		
· **Flash point:**	Not applicable		
· **Auto igniting:**	Product is not selfigniting.		
· **Danger of explosion:** Product does not present an explosion hazard.			
· **Density:** at 20 ° C	1.020 - 1.030 g/cm3		ISO 2811
· **Solubility in / Miscibility with**			
· **Water:**	Fully miscible		
· **pH-value:** (100 g/l) at 20 ° C	9.0 - 10.0		

10 **Stability and reactivity**

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Dangerous reactions**
Reacts with strong acids and oxidizing agents
Possible formation of peroxide
Reacts with certain metals

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Trade name: SOLVEX 2

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· **Dangerous products of decomposition:**
No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**
LD/Lc50 values that are relevant for classification:
68411-30-3 linear alkylbenzenesulfonic acid salt
Oral: LD50: 2550 mg/kg (rat)

112-34-5 diethylene glycol monobutylether
Oral: LD50: 6560 mg/kg (rat)
Dermal: LD50: 4120 mg/kg (rabbit)

64742-48-9 isoalkanes
Oral: LD50: >5000 mg/kg (rat)
Dermal: LD50: >3000 mg/kg (rabbit)

· **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
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
At present there are no ecotoxicological assessments.

13 Waste Disposal Method

· **Product and uncleaned packagings:**
· **Recommendation:**
Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

14 Transport information

· **DOT regulations:**
· **Hazard class:** -

· **Land transport ADR/RID (cross-border)**
· **ADR/RID class:** -

· **Maritime transport IMDG:**
· **IMDG Class:** -

· **Air transport ICAO-TI and IATA-DGR:**
· **ICAO/IATA Class:** -

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Trade name: SOLVEX 2

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· **Transport/Additional information:**
Not dangerous according to the above specifications.

* 15 **Regulatory information (Not meant to be all-inclusive/selected regulations represented)**

· **Product related hazard informations:**
The product has been marked in accordance with national laws.
Observe the general safety regulations when handling chemicals

· **Hazard symbols:**
Irritant

· **Risk phrases:** Irritating to eyes and skin.

· **Safety phrases:**
Keep out of the reach of children.
When using do not eat or drink.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Wear suitable gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately.
If swallowed, seek medical advice immediately and show this container or label.

· **National regulations**

· **Water hazard class:**
Water hazard class 2 (Self-assessment): hazardous for water.

· **Other regulations, limitations and prohibitive regulations**
The product has been designed for professional use only.

· **Please note:**
The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that their activities comply with Federal, State or provincial and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.

· **U.S. Regulations**

· **SARA 313 Information:**
This product contains the following substances are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CAS-No.:	Chemical name:
void	

· **SARA Hazard Category:**
This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
void

· **Toxic Substances Control Act (TSCA):**
All ingredients are listed on the TSCA inventory.

· **California proposition 65:**
The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986.

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Trade name: SOLVEX 2

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This product contains / does not contain chemical(s) known to the State of California to cause cancer and/or to cause reproductive toxicity.

Chemicals known to cause cancer:

void

Chemicals known to cause reproductive toxicity:

void

· **State right-to-know**

The following product component(s) is/are cited on certain State lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

· CAS-No.:	Chemical name:	LIST:
1336-21-6	ammonium hydoxide	NY/PA-E

· **OSHA hazard communication standard:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

· **Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund):**

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:

· **CAS-No.: Chemical name:** 1336-21-6 ammonium hydroxide

· **Canadian regulations**

· **WHMIS information:**

The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

D2B - Eye and/or skin irritant
Refer elswhere in the MSDS for specific warnings and safe handling information. Refer to the empoyer's workplace education program.

· **CPR statement:**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

· **Hazardous products act information:**

This produkt contains the following ingredient(s) which are Controlled Products and/or on the Ingredients Disclosure List (Canadian HPA section 13 and 14):

· CAS-No.:	Components:
68411-30-3	linear alkylbenzenesulfonic acid salt
112-34-5	diethylene glycol monobutylether
1336-21-6	ammonium hydroxide

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.

· **Contact:** R. Döring

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acc. to ISO/DIS 11014

Printing date 12/14/2000 Reviewed on 12/14/2000

* 1 **Identification of substance:**

· **Product details:**

· **Trade name:** SOLVEX 3

· **Manufacturer/Supplier:**
SEITZ GmbH
Chemische Fabrik
Gutenbergstr. 3
D-65830 Kriftel

· **Information department:**
CHEM-TEL Inc.
10770 North 46th Street STE. B100
Temple Terrace
Tampa Florida 33617
· **Emergency information:** 1-800-255-3924

2 **Composition/Data on components:**

· **Chemical characterization**
· **Description:**
Mixture of the substances listed below with non-hazardous ingredients.

CAS-No.	Components:	
34590-94-8	dipropylen glycol monomethylether	10 - 30 %
68411-30-3	linear alkylbenzenesulfonic acid salt	10 - 30 %
68391-01-5	alkyl dimethyl benzyl ammonium chloride	< 5 %
37205-87-1	isononylphenol, oxethylated	< 5 %
12645-31-7	2-ethyl-1-hexanole, oxethylated, phosphated	< 5 %

3 **Hazards identification**

· **Hazard description:**
Irritant liquid
· **Information pertaining to particular dangers for man and environment**
Irritating to eyes and skin.
· **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
· **NFPA ratings (scale 0-4)**

Health = 1
Fire = 0
Reactivity = 0

4 **First aid measures**

· **General information**
Immediately remove any clothing soiled by the product.
Remove casualties from exposure.
Keep unprotected persons away.
· **After inhalation**