

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 07/21/2004

Reviewed on 11/13/2003

1 Identification of substance

HMG

· Product details**· Trade name:** Acrythane XSC Clear Gloss**· Article number:** 5132**· Application of the substance / the preparation** Coating compound/ Surface coating/ paint**· Manufacturer/Supplier:**HMG AMERICA LLC,
PO BOX313
ROEBUCK
SC29376
TEL 864 578 6770
FAX 864 578 6770**· Information department:** CHEMTREC 1-800 424 9300 or 1(703)527 3887 outside the USA

2 Composition/Data on components

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

| | | |
|------------|--|---------|
| 123-86-4 | n-butyl acetate | 25-50% |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 2.5-10% |
| | Sterically hindered amine light stabiliser | ≤ 2.5% |
| 64742-95-6 | Solvent naphtha (petroleum), light arom. | ≤ 2.5% |

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

3 Hazards identification

· Hazard description: Not applicable.**· Information pertaining to particular dangers for man 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.

Flammable.

Vapours may cause drowsiness and dizziness

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

| | |
|-----------|----------------------|
| 108-10-1 | 4-methylpentan-2-one |
| 1330-20-7 | Xylene (mix) |

· NFPA ratings (scale 0 - 4)

Health = 2

Fire = 3

Reactivity = 0

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· **WHMIS-ratings (scale 0 - 4)**

| | |
|--------------|----------------|
| 2 | Health = 2 |
| 3 | Fire = 3 |
| REACTIVITY 0 | Reactivity = 0 |

4 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. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls and personal protection

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

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· **Components with limit values that require monitoring at the workplace:**

123-86-4 n-butyl acetate

| | |
|-----|---|
| PEL | 710 mg/m ³ , 150 ppm |
| REL | Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm |
| TLV | Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 150 ppm |

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

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

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

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.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

| | |
|---------------|------------------------------------|
| Form: | Fluid |
| Color: | According to product specification |
| Odor: | Characteristic |

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 124°C (255°F)

· **Flash point:** 23°C (73°F)

· **Ignition temperature:** 315.0°C (599°F)

· **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: 3.0 Vol %

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| | |
|--|-----------------------------------|
| Upper: | 10.4 Vol % |
| · Vapor pressure at 20°C (68°F): | 10.7 hPa (8 mm Hg) |
| · Density at 20°C (68°F): | 1.015 g/cm ³ |
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Solvent content: | |
| Organic solvents: | 45.3 % |
| · Solids content: | 54.7 % |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

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

12 Ecological information

- **General notes:**
Water hazard class 1 (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.

13 Disposal considerations

- **Product:**
- **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.

14 Transport information

- **DOT regulations:**



- **Hazard class:** 3

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Trade name: Acrythane XSC Clear Gloss

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- **Identification number:** UN1263
- **Packing group:** III
- **Proper shipping name (technical name):** PAINT
- **Label** 3

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



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 30
- **UN-Number:** 1263
- **Packaging group:** III
- **Description of goods:** 1263 PAINT

· **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** PAINT

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



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label** 3
- **Packaging group:** III
- **Proper shipping name:** PAINT

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **TSCA (Toxic Substances Control Act):**

| | |
|------------|--|
| 123-86-4 | n-butyl acetate |
| 108-65-6 | 2-methoxy-1-methylethyl acetate |
| 108-10-1 | 4-methylpentan-2-one |
| 1330-20-7 | Xylene (mix) |
| 64742-95-6 | Solvent naphtha (petroleum), light arom. |

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Trade name: Acrythane XSC Clear Gloss

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· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

| | | |
|-----------|--------------|---|
| 1330-20-7 | Xylene (mix) | D |
|-----------|--------------|---|

· **IARC (International Agency for Research on Cancer)**

| | | |
|-----------|--------------|---|
| 1330-20-7 | Xylene (mix) | 3 |
|-----------|--------------|---|

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

| | | |
|-----------|--------------|----|
| 1330-20-7 | Xylene (mix) | A4 |
|-----------|--------------|----|

| | | |
|---------|----------------------|----|
| 77-58-7 | dibutyltin dilaurate | A4 |
|---------|----------------------|----|

· **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.

· **Risk phrases:**

Flammable.

Vapours may cause drowsiness and dizziness

· **Safety phrases:**

Keep away from sources of ignition - No smoking.

Do not breathe gas/fumes/vapour/spray.

Avoid contact with eyes.

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

In case of fire, use water or powdered extinguishing agent

This material and its container must be disposed of as hazardous waste.

· **National regulations:**

· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| NK | 45.3 |

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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:** Product safety department: LABORATORY

· **Contact:** DAVE MCROBBIE

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1 Identification of substance

HMG

· **Product details**

· **Trade name:** K Type Varnish Reducer

· **Article number:** 1501

· **Application of the substance / the preparation** Coating compound/ Surface coating/ paint

· **Manufacturer/Supplier:**

HMG AMERICA LLC,

PO BOX313

ROEBUCK

SC29376

TEL 864 578 6770

FAX 864 578 6770

· **Information department:** CHEMTREC 1-800 424 9300 or 1(703)527 3887 outside the USA

2 Composition/Data on components

· **Chemical characterization:** Organic chrome complex

· **CAS No. Description**

64742-82-1 White Spirit

· **Identification number(s)**

· **EINECS Number:** 265-185-4

· **EU Number:** 649-330-00-2

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|------------|--|---------|
| 64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy | 50-100% |
| | HF White Spirit | 2.5-10% |

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

3 Hazards identification

· **Hazard description:**



Harmful
Dangerous for the environment

· **Information pertaining to particular dangers for man 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.

Flammable.

Harmful if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Harmful: may cause lung damage if swallowed.

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Trade name: K Type Varnish Reducer

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· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

1330-20-7 Xylene (mix)

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 2

Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 2

Reactivity = 0

4 First aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **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.

· **After swallowing:** Immediately call a doctor.

5 Fire fighting measures

· **Suitable extinguishing agents:**

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

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

· **Measures for environmental protection:**

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

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

· **Measures for cleaning/collecting:**

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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Trade name: **K Type Varnish Reducer**

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- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
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.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information

| | |
|---------------|----------------|
| Form: | Liquid |
| Color: | Colorless |
| Odor: | Characteristic |

· Change in condition

Melting point/Melting range: -20°C (-4°F)
Boiling point/Boiling range: 150°C (302°F)

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Trade name: K Type Varnish Reducer

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| | |
|--|--|
| · Flash point: | 38°C (100°F) |
| · Ignition temperature: | 230°C (446°F) |
| · 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 (68°F): | 0.801 g/cm ³ |
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Solvent content: | |
| Organic solvents: | 5.0 % |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

12 Ecological information

- **Ecotoxical effects:**
- **Remark:** Toxic for fish
- **General notes:**
Water hazard class 1 (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.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Trade name: **K Type Varnish Reducer**

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

14 Transport information

· DOT regulations:



- **Hazard class:** 3
- **Identification number:** UN1263
- **Packing group:** III
- **Proper shipping name (technical name):** PAINT RELATED MATERIAL
- **Label:** 3

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



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 30
- **UN-Number:** 1263
- **Packaging group:** III
- **Description of goods:** 1263 PAINT RELATED MATERIAL

· Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** Yes
- **Proper shipping name:** PAINT RELATED MATERIAL

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** PAINT RELATED MATERIAL

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Trade name: **K Type Varnish Reducer**

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15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**

| | | |
|-----------|--------------|---|
| 1330-20-7 | Xylene (mix) | D |
|-----------|--------------|---|

| | | |
|---------|------------------|--------|
| 98-82-8 | isopropylbenzene | D; CBD |
|---------|------------------|--------|

- **IARC (International Agency for Research on Cancer)**

| | | |
|-----------|--------------|---|
| 1330-20-7 | Xylene (mix) | 3 |
|-----------|--------------|---|

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

| | | |
|-----------|--------------|----|
| 1330-20-7 | Xylene (mix) | A4 |
|-----------|--------------|----|

- **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

Dangerous for the environment

- **Hazard-determining components of labelling:**

Naphtha (petroleum), hydrodesulfurized heavy

- **Risk phrases:**

Flammable.

Harmful if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Harmful: may cause lung damage if swallowed.

- **Safety phrases:**

Do not breathe gas/fumes/vapour/spray.

Avoid contact with eyes.

Wear suitable protective clothing.

In case of fire, use water or powdered extinguishing agent

In case of accident or if you feel unwell, seek medical advice immediately.

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Use appropriate container to avoid environmental contamination.

· **National regulations:**

· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| NK | 5.0 |

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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:** Product safety department: LABORATORY

· **Contact:** DAVE MCROBBIE

USA

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1 Identification of substance

HMG

· **Product details**

· **Trade name:** K Type Varnish Reducer

· **Article number:** 1501

· **Application of the substance / the preparation** Coating compound/ Surface coating/ paint

· **Manufacturer/Supplier:**

HMG AMERICA LLC,

PO BOX313

ROEBUCK

SC29376

TEL 864 578 6770

FAX 864 578 6770

· **Information department:** CHEMTREC 1-800 424 9300 or 1(703)527 3887 outside the USA

2 Composition/Data on components

· **Chemical characterization:** Organic chrome complex

· **CAS No. Description**

64742-82-1 White Spirit

· **Identification number(s)**

· **EINECS Number:** 265-185-4

· **EU Number:** 649-330-00-2

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|------------|--|---------|
| 64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy | 50-100% |
| | HF White Spirit | 2.5-10% |

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

3 Hazards identification

· **Hazard description:**



Harmful
Dangerous for the environment

· **Information pertaining to particular dangers for man 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.

Flammable.

Harmful if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Harmful: may cause lung damage if swallowed.

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Trade name: K Type Varnish Reducer

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· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

1330-20-7 Xylene (mix)

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 2

Reactivity = 0

· **WHMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 2

Reactivity = 0

4 First aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **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.

· **After swallowing:** Immediately call a doctor.

5 Fire fighting measures

· **Suitable extinguishing agents:**

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

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

· **Measures for environmental protection:**

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

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

· **Measures for cleaning/collecting:**

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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Trade name: **K Type Varnish Reducer**

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- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
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.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information

| | |
|---------------|----------------|
| Form: | Liquid |
| Color: | Colorless |
| Odor: | Characteristic |

· Change in condition

| | |
|-------------------------------------|---------------|
| Melting point/Melting range: | -20°C (-4°F) |
| Boiling point/Boiling range: | 150°C (302°F) |

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Trade name: K Type Varnish Reducer

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| | |
|--|--|
| · Flash point: | 38°C (100°F) |
| · Ignition temperature: | 230°C (446°F) |
| · 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 (68°F): | 0.801 g/cm ³ |
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Solvent content: | |
| Organic solvents: | 5.0 % |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

12 Ecological information

- **Ecotoxical effects:**
- **Remark:** Toxic for fish
- **General notes:**
Water hazard class 1 (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.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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USA

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Reviewed on 07/21/2004

Trade name: **K Type Varnish Reducer**

(Contd. of page 4)

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

14 Transport information

· DOT regulations:



- **Hazard class:** 3
- **Identification number:** UN1263
- **Packing group:** III
- **Proper shipping name (technical name):** PAINT RELATED MATERIAL
- **Label:** 3

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



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 30
- **UN-Number:** 1263
- **Packaging group:** III
- **Description of goods:** 1263 PAINT RELATED MATERIAL

· Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** Yes
- **Proper shipping name:** PAINT RELATED MATERIAL

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** PAINT RELATED MATERIAL

USA

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Reviewed on 07/21/2004

| |
|---|
| Trade name: K Type Varnish Reducer |
|---|

(Contd. of page 5)

15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

| |
|-----------------------------------|
| None of the ingredient is listed. |
|-----------------------------------|

- **TSCA (Toxic Substances Control Act):**

| |
|-----------------------------|
| All ingredients are listed. |
|-----------------------------|

- **Proposition 65**

- **Chemicals known to cause cancer:**

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

- **Chemicals known to cause reproductive toxicity:**

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**

| | | |
|-----------|--------------|---|
| 1330-20-7 | Xylene (mix) | D |
|-----------|--------------|---|

| | | |
|---------|------------------|--------|
| 98-82-8 | isopropylbenzene | D; CBD |
|---------|------------------|--------|

- **IARC (International Agency for Research on Cancer)**

| | | |
|-----------|--------------|---|
| 1330-20-7 | Xylene (mix) | 3 |
|-----------|--------------|---|

- **NTP (National Toxicology Program)**

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

- **TLV (Threshold Limit Value established by ACGIH)**

| | | |
|-----------|--------------|----|
| 1330-20-7 | Xylene (mix) | A4 |
|-----------|--------------|----|

- **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

Dangerous for the environment

- **Hazard-determining components of labelling:**

Naphtha (petroleum), hydrodesulfurized heavy

- **Risk phrases:**

Flammable.

Harmful if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Harmful: may cause lung damage if swallowed.

- **Safety phrases:**

Do not breathe gas/fumes/vapour/spray.

Avoid contact with eyes.

Wear suitable protective clothing.

In case of fire, use water or powdered extinguishing agent

In case of accident or if you feel unwell, seek medical advice imm