

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



BYK-LP X 20693

Version 3.0 SDB_REG_EU

Revision Date 03.05.2011

Print Date 04.05.2011

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : BYK-LP X 20693

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Additive for paints and plastics

1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH
Abelstrasse 45
46483 Wesel
Telephone : +49 281 670-0
Telefax : +49 281 65735

Information : Regulatory Affairs
Telephone : +49 281 670-23532
Telefax : +49 281 670-23533
GHS.BYK@altana.com

1.4 Emergency telephone number

GBK Gefahrgut Buero GmbH, Tel. +49 6132 84463

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Classification (67/548/EEC, 1999/45/EC)

Flammable R10: Flammable.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.

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P280 Wear protective gloves/ protective clothing/
eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take
off immediately all contaminated clothing.
Rinse skin with water/ shower.

P370 + P378 In case of fire: Use dry sand, dry chemical
or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Dispersion of alumina nanoparticles

Hazardous components

| Chemical Name | CAS-No. EC-No. Registration number | Classification (67/548/EEC) | Classification (REGULATION (EC) No 1272/2008) | Concentration [%] |
|--|---|-----------------------------------|---|----------------------|
| Phosphoric acid polyester (72243- 070628, Germany) | - | Xi; R36 | Eye Irrit. 2; H319 | >= 3 - < 5 |
| 2-methoxypropyl acetate | 70657-70-4 274-724-2 | R10 Repr.Cat.2; R61 Xi; R37 | Flam. Liq. 3; H226 Repr. 1B; H360 STOT SE 3; H335 | >= 0,1 - < 0,25 |
| WEL substance : | | | | |
| 2-methoxy-1- methylethyl acetate | 108-65-6 203-603-9 | R10 | Flam. Liq. 3; H226 | >= 30 - < 50 |

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical
advice.
If symptoms persist, call a physician.

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|-------------------------|---|
| In case of skin contact | : If on skin, rinse well with water. If on clothes, remove clothes. |
| In case of eye contact | : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |

5. Fire-fighting measures

5.1 Extinguishing media

- | | |
|------------------------------|---|
| Suitable extinguishing media | : Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical |
|------------------------------|---|

- | | |
|--------------------------------|-------------------------|
| Unsuitable extinguishing media | : High volume water jet |
|--------------------------------|-------------------------|

5.2 Special hazards arising from the substance or mixture

- | | |
|---------------------------------------|---|
| Specific hazards during fire fighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
|---------------------------------------|---|

5.3 Advice for firefighters

- | | |
|--|---|
| Special protective equipment for fire-fighters | : Wear self contained breathing apparatus for fire fighting if necessary. |
| Further information | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. |

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- | | |
|----------------------|---|
| Personal precautions | : Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
|----------------------|---|

6.2 Environmental precautions

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Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Keep away from open flames, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Electrical installations / working materials must comply with the technological safety standards.
Keep only in the original container.

: No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Other data : No decomposition if stored and applied as directed.

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8. Exposure controls/personal protection

8.1 Control parameters

| Components | CAS-No. | Value | Control parameters | Update | Basis |
|---------------------------------|---|-------|----------------------------------|------------|------------|
| 2-methoxy-1-methylethyl acetate | 108-65-6 | TWA | 50 ppm 275 mg/m ³ | 2000-06-16 | 2000/39/EC |
| Further information | : skin: Identifies the possibility of significant uptake through the skin Indicative | | | | |
| | | STEL | 100 ppm 550 mg/m ³ | 2000-06-16 | 2000/39/EC |
| Further information | : skin: Identifies the possibility of significant uptake through the skin Indicative | | | | |

8.2 Exposure controls

Personal protective equipment

- Hand protection : butyl-rubber
Break through time: 120 min
- : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : Wash hands before breaks and at the end of workday.

Environmental exposure controls

- General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-----------------------------|--|
| Appearance | : dispersion |
| Colour | : white |
| Odour | : solvent-like |
| Flash point | : 46,00 °C at 1.013 hPa Method: 48 (Abel-Pensky) |
| Ignition temperature | : no data available |
| Lower explosion limit | : 1 %(V) |
| Upper explosion limit | : 10,80 %(V) |
| pH | : no data available |
| Boiling point/boiling range | : no data available |
| Vapour pressure | : 3,0000000 hPa at 20,00 °C |
| Density | : 1,547 g/cm3 at 20,00 °C (1.013,000000 hPa) Method: 1 (20 °C Lackpyknometer) |
| Bulk density | : not applicable |
| Water solubility | : insoluble |
| Viscosity, kinematic | : at 20,00 °C no data available at 40,00 °C no data available |
| Surface tension | : no data available |

10. Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

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Hazardous reactions : No decomposition if stored and applied as directed.
: Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : no data available

Skin corrosion/irritation

Skin irritation : no data available

Serious eye damage/eye irritation

Eye irritation : no data available

Respiratory or skin sensitization

Sensitisation : no data available

Target Organ Systemic Toxicant - Repeated exposure

: no data available

Further information

: no data available

12. Ecological information

12.1 Toxicity

Toxicity to fish :
no data available

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : no data available

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12.4 Mobility in soil

Surface tension : no data available

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Additional ecological information : no data available

13. Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

14. Transport information

Land transport

ADR / RID:
Class: 3
Packaging group: III
UN number: 3272
ADR/RID-Labels: 3
Description of the goods: ESTERS, N.O.S. (1-Methoxy-2-propanol acetate)

Sea transport

IMDG:
Class: 3
Packaging group: III
UN number: 3272
Labels: 3
EmS: F-E S-D
Description of the goods: ESTERS, N.O.S. (1-Methoxy-2-propanol acetate)
Marine pollutant no

Air transport

IATA-DGR :
Class: 3
Packaging group: III

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| | |
|---------------------------|---|
| UN/ID No.: | UN 3272 |
| Labels: | 3 |
| Description of the goods: | Esters, n.o.s. (1-Methoxy-2-propanol acetate) |

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Risk classification according to VbF : Flash point 21 °C to 55 °C, at 15 °C not miscible in water

| | | |
|-----------------------------------|--|--------------|
| Major Accident Hazard Legislation | : 96/82/EC Flammable. 6 Quantity 1: 5.000 t Quantity 2: 50.000 t | Update: 2003 |
|-----------------------------------|--|--------------|

15.2 Chemical Safety Assessment

16. Other information

Full text of R-phrases referred to under sections 2 and 3

| | |
|-----|-------------------------------------|
| R10 | Flammable. |
| R36 | Irritating to eyes. |
| R37 | Irritating to respiratory system. |
| R61 | May cause harm to the unborn child. |

Full text of H-Statements referred to under sections 2 and 3.

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H360 | May damage fertility or the unborn child. |

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.