

Safety Data Sheet (EA979KA-5B ゴムフレーム部分)

according to 91/155/EEC



Printing date: 27.07.2005
reworked on: 27.07.2005

Trade name: Alfater XL[®]

1 Identification of the substance / preparation and of the company / undertaking

Alfater XL[®]

This Safety Data Sheet is valid for the following products:

Alfater XL

A35E 1GP0000 (A 35 E)	A35I 1GP0000 (A 35 I)	A45E 1GP0000 (A 45 E)
A45E 2GP0000	A45I 1GP0000 (A 45 I)	A45I 2GP0000
A50E 1GP0000 (A 50 E)	A50E 2UV0000	A50I 1GP0000 (A 50 I)
A50I 2GP0000	A55E 1GP0000 (A 55 E)	A55E 2GP0000
A55I 1GP0000 (A 55 I)	A55I 2GP0000	A60E 1GP0000 (A 60 E)
A60E 2GP0000 (A 2602 E)	A60I 1GP0000 (A 60 I)	A60I 2GP0000 (A 2602 I)
A60I 2GP0001	A65E 1GP0000 (A 65 E)	A65E 2GP0000 (A 2652 E)
A65I 1GP0000 (A 65 I)	A65I 2GP0000 (A 2652 I)	A70E 1GP0000 (A 70 E)
A70I 1GP0000 (A 70 I)	A75E 1GP0000 (A 75 E)	A75E 1MF0000
A75E 2GP0000 (A 2752 E)	A75I 1GP0000 (A 75 I)	A75I 2GP0000 (A 2752 I)
A80E 1GP0000 (A 80 E)	A80E 2GP0000 (A 2802 E)	A80I 1GP0000 (A 80 I)
A80I 2GP0000 (A 2802 I)	A85E 1GP0000 (A 85 E)	A85E 2GP0000 (A 2852 E)
A85I 1GP0000 (A 85 I)	A85I 2GP0000 (A 2852 I)	A90E 1GP0000 (A 90 E)
A90E 2GP0000 (A 2902 E)	A90I 1GP0000 (A 90 I)	A90I 2GP0000 (A 2902 I)
D40E 1GP0000 (D 40 E)	D40E 2GP0000 (D 2402 E)	D40I 1GP0000 (D 40 I)
D40I 2GP0000 (D2402 I)	D45E 1GP0000 (D 45 E)	D50E 1GP0000 (D 50 E)
D50I 1GP0000 (D 50 I)		

Use: Manufacture of plastic products

ALBIS PLASTIC GMBH
Mühlenhagen 35
D-20539 Hamburg
Tel.: (040) 78 10 50
Fax: (040) 78 10 53 63
Responsible Section: Laboratory

2 Composition / information on ingredients

Chemical Characterization: *Thermoplastic elastomer vulcanisate TPV-(EPDM+PP), possibly additives, fillers and colourants*

Dangerous ingredients: *no duty to declare*

3 Hazards identification

No special hazards.

The product is not a hazardous substance in accordance with the German Regulation on Dangerous Substances (Gefahrstoffverordnung) in the current edition and the corresponding EC directives.

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4 First aid measures

After skin contact:

Burns by molten material require hospital treatment. Cool affected area as soon as possible. Do not remove material from skin.

After inhalation of decomposition products:

Take affected person to fresh air. In case of continuous complaints seek medical help.

After contact with eyes:

Rinse thoroughly with plenty of water. In case of continuous complaints seek medical help.

After digestion:

No special measures required. In case of continuous complaints seek medical help.

5 Fire fighting measures

Suitable extinguishing media: *Water spray, extinguishing powder, foam, carbon dioxide (CO₂)*

Unsuitable extinguishing media for safety reasons: *Water jet*

Main hazardous gases given off during combustion:

Carbon monoxide (CO), carbon dioxide (CO₂)

Firemen have to wear self-contained breathing apparatus.

6 Accidental release measures

Sweep / shovel up to prevent slipping.

7 Handling and Storage

Provide sufficient ventilation in the working area and local exhaust at processing machines (particularly at vent, nozzle and ejected melt).

Prevent dust formation during regranulation and machining of finished parts. Provide sufficient exhaust of dust.

Storage: Keep container closed. Store in cool, dry, sufficient ventilated area. Protect from direct sunlight.

Protection against fire and explosion: *Take measures against accumulation of static charges*

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8 Exposure controls / personal protection

The usual safety precautions for handling of chemicals and the general hygienic measures are to observe.

In connection with dust formed in consequence of mechanical treatment, e.g. grinding, the appropriate regulation/maxima for fine dust must be observed:

TRGS 900 (general dust limit, respirable amount)	10	mg/m ³
TRGS 900 (general dust limit, alveolar penetrating amount)	3	mg/m ³

Personal protective equipment:

Wear protective gloves (material: e.g. leather) and eye protection. In case of insufficient exhaust or dust formation use respiratory protection / dust protection mask. Avoid inhaling vapour. Avoid inhaling dust.

9 Physical and chemical properties

Form:	solid (granules)	
Colour:	depending on colouration	
Odour:	odourless	
Melting point / melting range of the polymer:	ca. 150	°C
Flash-ignition temperature:	not determined	°C
Self-ignition temperature:	not determined	°C
Explosive properties:	not applicable	
Vapour pressure:	not applicable	
Density at 20°C:	ca. 1	g/cm ³
Solubility in water:	insoluble	
pH-Value:	not applicable	
Viscosity:	not applicable	

10 Stability and reactivity

No decomposition if handled as recommended.

Hazardous decomposition products:

Thermal decomposition, smouldering or incomplete combustion as taking place by overheating during improperly processing or by burning leads to the formation of toxic gas mixtures consisting mainly of CO and CO₂.

Also may be formed: Monomers and other degradation products.

Dangerous reactions: *No hazardous reactions observed.*

Conditions to avoid: *Temperatures above degradation temperature. High dust concentration. Accumulation of static charges.*

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11 Toxicological information

In our experience and according to information available to us the product is not harmful to health provided it is correctly handled and processed according to the given recommendations and the usual hygienic measures are observed.

Under the recommended processing conditions small amounts of water, carbon dioxide, carbon monoxide and in very small amounts monomers and other degradation products may be emitted.

By adequate ventilation and/or local exhaust systems at the workplace it is to ensure that the exposure limits are not exceeded (see also pt. 8).

12 Ecological information

Test for ecotoxicity have not been performed. In our experience and according to information available to us the product has no environmental detrimental properties if it is handled and disposed according to the given recommendations.

The product is not biological degradable. On the basis of insolubility in water the material is not mobile in the environment and has no potential for bioaccumulation. A separation from water / wastewater is reached through each filtration or sedimentation process.

13 Disposal considerations

The product is suitable for recycling - check recycling possibilities. Disposal at appropriate landfill / refuse dump or appropriate incineration plant in accordance with local regulations.

Disposal Code No. for unused product:

Germany (LAGA): 57129 (other types of plastic waste)
Europe (EWC): 070213 (plastic waste)

14 Transport information

Not classified as hazardous under transport regulations. Keep dry.

15 Regulatory information

No labelling required in accordance with the German "Gefahrstoffverordnung" and corresponding EC directives.

Water pollution class (WGK): not hazardous to water (VwVwS 17.05.99 / self classification)

WGK = Classification in accordance with the German Water Resources Act.

16 Other information

The information submitted in this safety data sheet is based on our current knowledge and is intended to describe our products from the point of view of safety requirements. It should not be construed as guaranteeing specific properties.

Alterations to the last edition are highlighted grey.

August Mink KG
z.Hd. Frau Lekic
Autenbachstr. 24 -30
73035 Göppingen

Fax 07161 – 403 15 10

Material Safety Data Sheet

1. Product

Round Wire galvanized

2. Composition/Information on ingredients

Iron base metal with up to 1,50 % Mn, 0,20 % Cr, 0,20 % Ni and 0,25 % Cu.

Information:	Ingredient	CAS No.	Wt. %
Base metal:	Iron	7439-89-6	balance
	Manganese	7439-96-5	< 1.50
	Nickel	7440-02-0	< 0.20
	Chromium	7440-47-3	< 0.20
	Copper	7440-50-8	< 0.25
Coating:	Zinc	7440-66-6	90-100

3. First-aid measures

After inhalation: see 7.

After eye-contact: flush immediately with water, get medical care

Skin: -if irritation develops, wash carefully with soap and water
-if irritation persists, get medical care.

4. Fire fighting measures

Note: do not use water on molten metal.

5. Accidental release measures:

not applicable

6. Handling and storage

Handling: there is a risk of laceration from sharp cut ends
care should be taken when removing ties or straps which may
spring open.

7. Exposure controls/personal protection

Respiratory protection:	operations such as welding, burning, sawing... should be performed in a ventilated area. As usual for metal processing and transformation, dust and fumes should be kept lower than the limits stipulated in local regulations.
Hand protection:	gloves
Eye protection:	security glasses
Skin and body protection:	see 3

8. Physical and chemical properties

Appearance:	round and flat wire
Form:	solid metal
Melting point:	base metal > 1500 ° C

9. Stability and reactivity

Stable and not reactive when properly used

10. Disposal considerations

Excessive product and scrap can be recycled or disposed in accordance with local regulations.

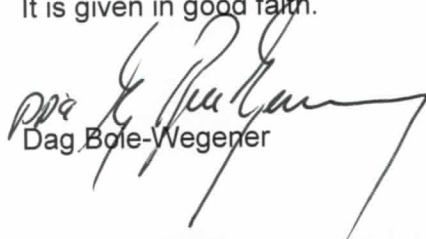
11. Description

Steel wires in their usual physical form do not pose any health hazards. However, when subjected to welding, burning, grinding, heat treatment or similar operations, potentially hazardous fumes or dusts, containing extremely low concentrations of manganese, zinc, chromium,.. may be emitted.

Non metallic coatings, usually classified as protective coatings or lubricants, may be applied to the surface of steel wire. They are less than 1 % of the weight of the product. Typical coatings are petroleum based oils, phosphates, sodium- or calcium-soap based lubricant. The possible presence of these coatings on steel wire products should be considered during welding or other dust/fume generating activities.

Other hazardous elements such as lead, barium and cadmium are absent or only in a negligible quantity present.

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith.


Dag Bole-Wegener

Material Safety Data Sheet

According to 2001/58/EEC

Printing date 31.03.2004 Version 1 Reviewed on 31.03.2004

1 Identification of substance:

o Product details:

o Trade name: Alastian PP HP2-1

o Article number: A13116

o Application of the substance / the preparation Synthetic resin

o Manufacturer/Supplier: Basell Polyolefins/Alastian

o Informing department:

Regulatory Affairs Department

Research center G. Natta, Basell Poliolefine Italia s.p.a.,

44100 - Ferrara (Italy)

Phone: +39/0532/468653 ; h 8.30-17.00

Fax: +39/0532/468820

2 Composition/Data on components:

o Chemical characterization

o Description:

Mixture of the substances listed below with harmless additives

1-propene-homopolymer

Dangerous components:

Void

3 Hazards identification

o Information pertaining to particular dangers for man and environment

The molten product adheres to the skin and causes burns.

Spilled material may present a slipping hazard.

Possible production of electrostatic chargings when used.

The working steams can irritate the eyes as well as the respiratory tract.

o Classification system

This product is, according to EEC directives 1999/45,

67/548, 76/769 and following amendments, not classified as hazardous.

4 First aid measures

o General information

The measures listed below apply to critical situations (Fire,

incorrect process conditions).

At room temperature the product is neither an irritant nor gives off hazardous vapours.

o After Inhalation

In case of excessive inhalation of fumes move the person to fresh air. Call for medical help.

Keep person warm, if necessary give mouth-to-mouth resuscitation, or artificial respiration.

o After skin contact

After contact with the molten product, cool rapidly with cold water.

Do not pull solidified product away from the skin.

Seek immediate medical advice.

o After eye contact

Rinse opened eye for several minutes under running water.

o After swallowing

Get medical advice if necessary.

No specific measures have to be taken if the product is swallowed.

5 Fire fighting measures

o Suitable extinguishing agents

Water haze

Foam

Carbon dioxide

Chemical powder

o For safety reasons unsuitable extinguishing agents None

o Special hazards caused by the material, its products of combustion or

resulting gases:

In case of fire it can release :

water (H₂O), carbon dioxide (CO₂), and when lacking oxygen (O₂), carbon monoxide (CO)

The products of the burning are dangerous.

The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400°C and 700°C).

o Protective equipment: Put on breathing apparatus,

o Additional information Heat value : 8000 - 11000 kcal/kg

6 Accidental release measures

o Person-related safety precautions:

No specific measures are necessary.

See point 8

o Measures for environmental protection:

No special measures required.

See points 12 and 13.

o Measures for cleaning/collecting:

See point 13

Small spills:

Put into a labelled container and provide safe disposal.

Large spills:

Act as during a limited release.
Recycle product or dispose properly.

o Additional information:

Collect spilled polymer: It could cause falls (Danger of slipping).

• 7 Handling and storage

o Handling

o Information for safe handling:

No special requirements necessary, if handled at room temperature.

Avoid spilling the product, as this might cause falls.

When bringing the material to processing temperatures gases might develop, forming:

propylene

hydrocarbon substances with low molecular weight and their oxidation products

solvent residues

traces of formaldehyde and acrylaldehyde

traces of acids (Formic acid, acetic acid)

Provide appropriate ventilation for such processing conditions,

Experimental tests under different application conditions showed maximum limits of formaldehyde, acrylaldehyde, formic acid, and acetic acid being significantly below TLV- values.

Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.

o Storage

o Requirements to be met by storerooms and containers:

Take precautionary measures to prevent the formation of static electricity.

Do not smoke.

Ground equipment electrically.

Electric safety equipment.

Open flames prohibited.

Store the product in bags, car silos, container, or large cartons.

o Information about storage in one common storage facility: Not required.

o Further information about storage conditions:

Store container in a well ventilated position.

Store under dry conditions.

Storage containers should be stacked at a maximum of two high.

• * 8 Exposure controls and personal protection

Components with limit values that require monitoring at the workplace:

Additional exposure limit values for possible processing

dangers:

107-02-8 acrylaldehyde

OES (Great Britain): Short-term value: 0.70 mg/m³, 0.3 ppm
Long-term value: 0.23 mg/m³, 0.1 ppm

50-00-0 formaldehyde

MEL (Great Britain): Short-term value: 2.5 mg/m³, 2 ppm
Long-term value: 2.5 mg/m³, 2 ppm

64-19-7 acetic acid

OES (Great Britain): Short-term value: 37 mg/m³, 15 ppm
Long-term value: 25 mg/m³, 10 ppm
ILV

64-18-6 formic acid

OES (Great Britain): Long-term value: 9.6 mg/m³, 5 ppm
ILV

o Additional information: see point(s) 7, 9.

o Personal protective equipment

o General protective and hygienic measures

Do not eat or drink while working.

No smoking.

Provide system for collecting the vapors which are created during the working process.

o Breathing equipment:

If appropriate ventilation is not available use face mask when handling the molten product.

o Protection of hands: Heat resistant gloves

o 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.

o 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.

o Eye protection: Not required.

o Body protection: Normal overalls

9 Physical and chemical properties:

o General Information

o Form: Granulate

o Colour: White

o Odour: Odourless

o

Value/Range Unit

Method

o Change in condition

o Melting point/Melting range:

160-163 ° C

o Flash point:

Not applicable (see attachment to guideline 92/69/EEC, A.9)

- o Ignition temperature: > 400 ° C
- o Decomposition temperature: > 300 ° C
- o Danger of explosion: Product is not explosive.
See point(s) 7.
- o Density at 20 ° C 0.89-0.91 g/cm³
- o Solubility in / Miscibility with
o Water: Insoluble
- o Additional information
Soluble in boiling, aromatic chlorinated solvents.

• 10 Stability and reactivity

- o Thermal decomposition / conditions to be avoided:
The product is stable at normal handling- and storage conditions.
- o Materials to be avoided: Strong oxidation agent
- o Dangerous reactions: No dangerous reactions known
- o Dangerous products of decomposition:
No hazardous decomposition products known at room temperature.

• 11 Toxicological information

- o Acute toxicity:
- o Primary irritant effect:
- o on the skin: No irritant effect.
- o on the eye: No irritant effect.
- o Sensitization: No sensitizing effect known.
- o Additional toxicological information:
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:

- o Information about elimination (persistence and degradability):
- o Other information: The product is not biodegradable.
- o Behaviour in environmental systems:
- o Mobility and bioaccumulation potential:
Floats on water.
There is no bioaccumulation.
- o General notes:
The product is not toxic, small particles can have physical effects on water and soil organisms.

• 13 Disposal considerations

- o Product:
- o Recommendation
The material can be re-used or recycled according to the

regulations of Guideline EG 94/62.

Disposal through controlled incineration or authorised waste dump.

o Uncleaned packagings:

o Recommendation:

Disposal must be done according to official regulations.

• 14 Transport information

o Transport/Additional information:

According to national and international guidelines, which regulate the road-, rail-, air- and seairtransport, this product is classified as not dangerous.

• 15 Regulatory information

o Designation according to EC guidelines:

The material is not subject to classification according to EC lists and other sources of literature known to us.

Observe the normal safety regulations when handling chemicals

o National regulations

o Further regulations, restrictions and prohibition regulations.

Generally all national regulations regarding this product type apply.

• *16 Other information:

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. Basell Polyolefins/Alastian takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.

o Department issuing data specification sheet:

Regulatory Affairs Department

o Contact: Ms Patrizia Busi

o Bibliography:

- Directive EEC 67/548 and following adaptations

- Directive 1999/45/EC, as amended

- Directive 76/769/EEC and following amendments

- Directive 2001/58/EC

- RTECS (Registry of toxic effects of chemical substances 1985-1986 edition)

- Frostling, Hof, Jacobson, Pfaffli, Zitting, "Thermal decomposition products from plastics", 2-Polypropylene and poly vinyl chloride, 1983

- EINECS/ELINCS