DECLARATION OF CONFORMITY OF THE RAW MATERIALS

No. BDO 000310743

Product CODE/Raw Material	Product Name/Raw Material
ZZ-NA-AK001-0070-F-Z0001-NZU1	Closure closure AK001 thread 70 /400 White opaque Z0001 low closure with sealing
K-70 PE	Dye
MOPLEN HP500N	Polypropylene

DYE - COMPLIANCE OF RAW WITH THE LEGAL REGULATIONS REQUIREMENTS

Based on the manufacturer's documentation, we declare that the raw material used for production is compliant with the following legal regulations

Commission Regulation (EC) No 10/2011 of 14 January 2011 the materials and articles intended to come into contact with food - packaging may be used for contact with all types of food as amanded

Regulation of the European Parliament and Council Regulation (EC) No 1935/2004 of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC

Commission Regulation (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food

European Parliament and Council Directive 94/62/EC December 1994 on packaging and packaging waste

Resolution AP (89) 1 concerning the use of dyes in materials and articles intended to come into contact with food

Commission Regulation (EC) No 1895/2005 - BADGE, NOGE and BFDGE are not used for the production of this species

The product meets the requirements CONEG on heavy metal content below 100 ppm for total random contents of cadmium, chromium, lead and mercury

POLYPROPYLENE - COMPLIANCE OF RAW WITH THE LEGAL REGULATIONS REQUIREMENTS

Based on the manufacturer's documentation, we declare that the raw material used for production is compliant with the following legal regulations

Regulation of the European Parliament and Council Regulation (EC) No 1935/2004 of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC

Commission Regulation (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food

Commission Regulation (EC) No 10/2011 of 14 January 2011 the materials and articles intended to come into contact with food - packaging may be used for contact with all types of food as amanded

Requirements United States Agency - Food and Drug Administration in the range of 21 § 177.1520 (a) (1) (i) and (c) 1.1a

Commission Regulation (EC) No 1895/2005 - BADGE, NOGE and BFDGE are not used for the production of this species

The product meets the requirements CONEG on heavy metal content below 100 ppm for total random contents of cadmium, chromium, lead and mercury

European Parliament and Council Directive 94/62/EC December 1994 on packaging and packaging waste

Directive 2011/65 of the European Parliament and of the Council of 8 June 2011 on electrical and electronic equipment unloading equipment

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals - ANEX XIV, XV

Print date: 22.08.2017



Safety Data Sheet

according to Regulation (EC) No 1907/2006

LIFOCOLOR-WEISS K 70 PE

Revision date: 05.07.2017 Product code: 10163 Page 1 of 7

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

1.1. Product identifier

LIFOCOLOR-WEISS K 70 PE

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

Use of the substance/mixture

coloring component

Manufacture of plastics products, including compounding and conversion

1.3. Details of the supplier of the safety data sheet

Company name: LIFOCOLOR FARBEN GmbH & Co. KG

Masterbatches & Compounds

Street: Reundorfer Straße 18
Place: D-96215 Lichtenfels
Telephone: +49 9571 789 0
e-mail: zentrale@lifocolor.de
Internet: www.lifocolor.de

1.4. Emergency telephone +49 9571 789 0 (nur während der Bürozeiten)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Hazard components for labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

2.3. Other hazards

Special danger of slipping by leaking/spilling product.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

color masterbatch

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Provide fresh air.

In case of respiratory tract irritation, consult a physician.

After contact with skin

Wash with plenty of water.

After contact with molten product, cool skin area rapidly with cold water.

Burns caused by molten material must be treated clinically.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.



according to Regulation (EC) No 1907/2006

LIFOCOLOR-WEISS K 70 PE

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In case of eye irritation consult an ophthalmologist.

After inaestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder, Foam, Carbon dioxide (CO2), Water mist

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable.

Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

Do not breathe dust.

Use personal protection equipment.

Special danger of slipping by leaking/spilling product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Do not breathe dust.

Combustible solids

Provide adequate ventilation as well as local exhaustion at critical locations.

Advice on protection against fire and explosion

No special fire protection measures are necessary.



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Take precautionary measures against static discharges.

Keep away from sources of ignition. - No smoking.

Only use the material in places where open light, fire and other flammable sources can be kept away.

Further information on handling

Measures to prevent aerosol and dust generation

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Protect against: UV-radiation/sunlight

Advice on storage compatibility

No special measures are necessary.

7.3. Specific end use(s)

Manufacture of plastics products, including compounding and conversion

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Protective and hygiene measures

Take off contaminated clothing.

Wash hands before breaks and after work.

When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid:
Colour: white
Odour: odourless

Test method



according to Regulation (EC) No 1907/2006

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pH-Value: not determined

Changes in the physical state

Melting point: >90 °C
Initial boiling point and boiling range: not determined
Sublimation point: not determined
Softening point: not determined
Flash point: not determined

Flammability

Solid: not determined
Gas: not applicable

Explosive properties

not determined

Lower explosion limits: not determined Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure: not determined

Density: not determined

Water solubility: insoluble

Solubility in other solvents

not determined

Partition coefficient: not determined
Flow time: not determined
Vapour density: not determined
Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

Thermal decomposition can lead to the escape of irritating gases and vapours.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.



according to Regulation (EC) No 1907/2006

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10.6. Hazardous decomposition products

Gases/vapours, flammable Carbon monoxide Carbon dioxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

The product has not been tested. The statement is derived from the properties of the single components.

Acute toxicity

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

ATEmix tested

Dose Species Source

LD50, oral >2000 mg/kg Rat

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product will not be readily bioavailable due to its consistency and insolubility in water.

12.4. Mobility in soil

Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains.



according to Regulation (EC) No 1907/2006

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Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Water contaminating class (D): -- not water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Print date: 22.08.2017



Safety Data Sheet

according to Regulation (EC) No 1907/2006

LIFOCOLOR-WEISS K 70 PE

Revision date: 05.07.2017 Product code: 10163 Page 7 of 7

This data sheet contains changes from the previous version in section(s): 1.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



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

1.1 Product identifier

Product Name RAMAPET

Product Identification Name N1(S), N180, R1, R180(S), R180, R182(C), R182(C), PlantPET, P184, S184,

L1, W170, W176 and AH62

Name REACH Polyethylene Terephthalate (Copolyester)

CAS number Homopolymer 25038 - 59 - 9, Copolymer 24938 - 04 - 03

EC number N/AREACH number N/AMolecular Formula $(C_{10}H_8O_4)_n$

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

Polyethylene terephthalate (PET) is an intermediate plastic used for food and non - food contact packaging, bottles, films and fibers.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Indorama Ventures Europe BV

Markweg 201, 3198 NB Europoort Rotterdam, The Netherlands

UAB "Orion Global Pet"

Metalo 16, LT-94102 Klaipeda Lithuania

Indorama Ventures Poland Sp. z o.o.

ul. Krzywa Góra 19, 87-805 Włocławek, Poland

Indorama Ventures Quimica S.L.U.

Poligono Industrial Guadarranque, S/N, 11360, San Roque, Cadiz, Spain.

1.4 Emergency telephone number 24h

For emergency health, safety and environmental information telephone:

Rotterdam +31 181285472

Klaipeda +37 046 300749 extension 273

Włocławek +48 54 416 64 29 San Rogue +34 956671070

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Polyethylene terephthalate (PET) is a polymer is not classified as hazardous according to Regulation (EC) 1272/2008 (CLP).



2.2 Label elements

Labeling not required according to Regulation (EC) No 1272/2008 (CLP).

2.3 Other hazards

PET is not categorized as persistent, bio-accumulative or toxic (PBT) according to Regulation (EC) No. 1907/2006, Annex XIII.

PET is not very persistent or very bio-accumulative (vPvB) according to Regulation (EC) No. 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

Substance Mono-constituent substance

Mixtures Not applicable

Product name	CAS No	REACH No	Content	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Polyethylene terephthalate (PET)	25038-59-9	N/A	100 %	Not classified as hazardous

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

No known significant effects or critical hazards but if necessary treat symptomatically.



4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable: In case of fire, use water spray (fog), foam, dry chemical or CO2.

Not suitable: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture: No specific fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide.

5.3 Advice for firefighters

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Fire-fighting measures

Use self-contained breathing apparatus if respirable dust and/or fumes occur. Use water spray to cool and disperse vapors and protect personnel.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements or



confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8).

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits: No exposure limit value known.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

During processing of PET small amount of aldehydes are generated. The most well-known is acetaldehyde,



AA (CAS 75-07-0), also small amounts of formaldehyde, FA (CAS 50-00-0) are formed.

In its opinion, published in September 2016, the Committee for Risk Assessment (RAC) adopted a harmonized classification and labelling at EU level for acetaldehyde; ethanal, EC Number: 200-836-8, CAS Number: 75-07-0, as in their view, there is sufficient data to categorize acetaldehyde as carcinogen 1B. Customers are advised to check exposure to workers and apply current workplace exposure limits. There are workplace exposure limits for aldehydes and customers are advised to ensure they use the appropriate measures to their workplace. Customers should continue to monitor and record exposures on a regular basis and in addition take measures on ventilation if required. Exposure limits can be subjected to change following EU and National law. A considered risk assessment might be required when processing PET

Derived effect levels: No DELs available.

Predicted effect concentrations: No PECs available.

8.2 Exposure controls

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes or when material is handled hot.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Wear work clothing with long sleeves. Protective/insulated gloves.

Other skin protection: Suitable protective footwear.

Respiratory protection: Dust-protection mask.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

Physical state Solid under normal conditions, cylindrical and spherical pellets.

Color White in solid state and transparent in precursor state.

Odorless.
pH Not available.
Melting point/freezing point 240 to 265°C

Initial boiling point andNot available



boiling range

Flammability (solid, gas) Slightly flammable in the presence of the following materials or

conditions: open flames, sparks and static discharge and heat. Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts, oxidizing materials and

reducing materials.

Burning time Not available.
Upper/lower flammability Not available.

or explosive limits

Vapor pressureNot available.Vapor densityNot available.Density $1.39 - 1.4 \text{ g/cm}^3$

Solubility(ies) Partially soluble in the following materials: acetone.

Insoluble in the following materials: cold water and hot water.

Auto-ignition temperature >500°C

Decomposition temperatureNot available.**Viscosity (intrinsic)**0.55 - 0.85 dl/g

Explosive propertiesNon-explosive in the presence of the following materials or

conditions: open flames, sparks and static discharge, heat, shocks and

mechanical impacts, oxidizing materials and reducing materials.

Oxidizing properties Not available.

PET Dust Ignition Sensitivity & Explosion Severity:

MIE (minimum ignition Energy) 100 -200 mJ MIT (minimum ignition temperature) 490°C

Explosion Indices Pmax = 6.2 bar @ 750 g.m-3

(dP/dt)max = 241 bar.s-1 @ 4000 g.m-3

Kst value = 65 bar.m.s-1

St class = 1

Minimum Explosive Concentration 250 g.m-3

SECTION 10: Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid: No specific data. Incompatible materials: No specific data.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.



SECTION 11: Toxicological information

Information on toxicological effects: Not available.

Skin irritation/corrosion: Not classified. Eye damage/ irritation: Not classified. Skin sensitization: Not classified. Mutagenicity: Not classified. Carcinogenicity: Not available.

Reproductive toxicity: No known significant effects or critical hazards.

Teratogenicity: Not applicable.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Not available.

Aspiration hazard: Not available.

SECTION 12: Ecological information

Toxicity: Not available.

Persistence and degradability: Not available. **Bioaccumulative potential:** Not available.

Mobility in soil: Not available.

Results of PBT and vPvB assessment: Not applicable. The substance is not PBT and vPvB.

Other adverse effects: Not applicable.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with



soil, waterways, drains and sewers.

SECTION 14: Transport information

UN number: Not hazardous for transport.

UN proper shipping name: Not hazardous for transport.

Transport hazard class(es): Not hazardous for transport according ADR/RID, AND, IMDG, IATA.

Packing group: Not hazardous for transport according ADR/RID, AND, IMDG, IATA.

Packing group Environmental hazards: Not hazardous for transport according ADR/RID, AND, IMDG,

IATA.

Special precautions for user: always transport in closed containers that are upright and secure. Ensure that

persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH).

International Convention for the Prevention of Pollution From Ships, MARPOL 73 in its amended form. International Maritime Dangerous Goods (Code IMDG) according to chapter VII of the International Convention for the Safety of Life at Sea, 1974.

Annex XIV - List of substances subject to authorization: None of the components are listed.

Substances of very high concern (SVHC) according to Article 59(10) the REACH Regulation: None of the components are listed.

Other EU regulations:

Seveso II Directive: Not controlled under the Seveso II Directive.

Chemical Weapon Convention List Schedules I, II & III Chemicals: Not listed.

Montreal Protocol (Annexes A, B, C, E): Not listed.

Stockholm Convention on Persistent Organic Pollutants: Not listed. Rotterdam Convention on Prior Inform Consent (PIC): Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals: Not listed.

International lists:

National inventory

Australia: This material is listed or exempted. **Canada:** This material is listed or exempted. **China:** This material is listed or exempted. **Japan:** This material is listed or exempted.

Malaysia: Not determined.

New Zealand: This material is listed or exempted. **Philippines:** This material is listed or exempted.

Republic of Korea: This material is listed or exempted.

Taiwan: This material is listed or exempted.

United States: This material is listed or exempted.



15.2 Chemical Safety Assessment: Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified as hazardous. Handle in accordance with good industrial hygiene and safety practice.

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The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assume proper use and disposal of these materials, the safety and health of employees and customers and protection of the environment.