

Updated on: November 2019

PRODUCT SUBSTANCE IDENTIFICATION

Material Name: Polypropylene **Manufacturer: Al-Waha Petrochemical Company**

CAS Number: 9010-79-1

CAS Number: 9003-07-0

Relevant identified uses of the substance or mixture and uses advised against no further relevant information available.

APPLICATION OF THE SUBSTANCE / THE PREPARATION:

Synthetic resin

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Information concerning particular hazards for human and environment:

The molten product adheres to the skin and causes burns. Spilled material may present a slipping hazard.

Possible production of electrostatic charging when used.

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

Classification system:

This product is, according to EEC directives 1999/45, 67/548, Regulation 1907/2006/EC, and following

Amendments, not classified as hazardous. Label elements,

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Other hazards

Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

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Chemical characterization: Substances

CAS No. Designation

Chemical name: polypropylene homopolymer

CAS number: 9003-07-0

Molecular formula: $(C_3H_6)_n$

Chemical name: 1-propene, polymer with ethene

CAS number: 9010-79-1

Molecular formula: $(C_3H_6)_n(C_2H_4)_x$

FIRST AID MEASURES

General information

Description of first aid measures:

At room temperature the product is neither an irritant nor gives off hazardous vapors. The measures listed below apply to critical situations (Fire, incorrect process conditions).

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 artificial respiration.

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.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing

No specific measures have to be taken if the product is swallowed. Get medical advice if necessary.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

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FIREFIGHTING MEASURES

Extinguishing media
Suitable extinguishing agents
Water haze
Foam
Carbon dioxide
Chemical powder
Special hazards arising from the substance or mixture

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).

Advice for firefighters

Protective equipment: Put on breathing apparatus. Additional information Heat value: 8000 - 11000 kcal/kg

Accidental Release Measure

Personal precautions, protective equipment and emergency procedures:

No specific measures are necessary.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up:

Small spills: Put into a labeled container and provide safe disposal.

Large spills: Act as during a limited release.

Recycle product or dispose properly

HANDLING AND STORAGE

Precautions 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 Ethylene 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.

For all kinds of polymers, if dust is created during transport or handling, safety measures against danger of explosion have to be taken.

Information about protection against explosions and fires: No special measures required. Conditions for safe storage, including any incompatibilities

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Storage

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.

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

Further information about storage conditions:

Protect from heat and direct sunlight.

Store container in a well-ventilated position. Store under dry conditions.

Do not stack up the octavins.

Specific end use(s) for safe stacking follow the storage recommendations specific for this product

Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace: Not required.

Additional exposure limit values for possible processing dangers:

107-02-8 acrylaldehyde

WEL: Short-term value: 0.7 mg/m³, 0.3 ppm

Long-term value: 0.23 mg/m³, 0.1 ppm

50-00-0 formaldehyde

WEL: Short-term value: 2.5 mg/m³, 2 ppm

Long-term value: 2.5 mg/m³, 2 ppm

64-18-6 formic acid

WEL: Long-term value: 9.6 mg/m³, 5 ppm

Additional information:

Exposure controls

Personal protective equipment

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.

Breathing equipment:

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

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Protection of hands:

Heat resistant gloves 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.

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.

Danger of explosion: Product is not explosive.

Density at 20 °C 0.89-0.91 g/cm³

Solubility in / Miscibility with Water: Insoluble

Other information

Soluble in boiling, aromatic chlorinated solvents.

Eye protection: Safety goggles recommended during refilling.

Body protection: Normal overalls

Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Granulate

Color: White

Change in condition

Melting point/Melting range: 140-163 °C

Boiling point/Boiling range: Not applicable

Ignition temperature: > 400 °C

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

Decomposition temperature: > 300 °C

Danger of explosion: Product is not explosive.

Density at 20 °C 0.89-0.91 g/cm³

Solubility in / Miscibility with water

ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Other information:

The product is not biodegradable.

Behavior in environmental systems: Bioaccumulative potential

Floats on water.

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There is no bioaccumulation.
Mobility in soil No further relevant information available.
Additional ecological information:

General notes:

The product is not toxic, small particles can have physical effects on water and soil organisms.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

Disposal considerations

Waste treatment methods
Recommendation Disposal through controlled incineration or authorized waste dump.
European waste catalogue 0702

Un cleaned packaging`s:

Recommendation:

Disposal must be done according to official regulation

TRANSPORT INFORMATION

UN-Number	Void
ADR, ADN, IMDG, IATA	
UN proper shipping name ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
ADR	Void
Class	Not classified.
ADN/R Class:	Void
IMDG	Void
Class	Not classified
Packing group	
ADR, IMDG, IATA	Void
Environmental hazards:	Not applicable.
Transport in bulk according to Annex I	I of MARPOL73/78 and the IBC Code
Not applicable.	
Transport/Additional information:	
According to national and regulate the road-, rail-, air- and Classified as not dangerous.	

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Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Chemical Substance Control Law

Existing Chemical Substances

9003-07-0 Polypropylene homopolymer (1-propylene)
9010-79-1 1-propene, polymer with ethene

Specified Chemical Substances

Substance is not listed.

Monitoring /Type II Monitoring (before amendment) /Type III Monitoring (before amendment) Chemical Substances

Substance is not listed.

Priority Assessment Chemical Substances

Substance is not listed.

Chemical Substances Relating to a Public Notice Pursuant to The Provisions of Paragraph 4 of Article 4 of the Former Act

Substance is not listed.

Biodegradation and Bio-concentration of Existing Chemical Substances

Substance is not listed.

Toxicity Tests Results

Substance is not listed.

National regulations

Other regulations, limitations and prohibitive regulations

Generally, all national regulations regarding this product type apply.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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 warrant for specific product characteristics. Sahara Petrochemicals Company takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.

Department issuing data specification sheet: Regulatory Affairs Department

Contact: Regulatory Affairs Department

Bibliography:

Directive EEC 67/548 and following adaptations Directive 1999/45/EC, as amended
- 1907/2006/EC

Directive 2001/58/EC (repealed by (EC) 1907/2006)

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 (REACH)

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

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 Labeling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)