

SAFETY DATA SHEET

According to Regulation No 1907/2006/EC (REACH), Annex II, as amended by
Commission Regulation (EU) 2015/830 and Regulation No 1272/2008/EC (CLP)



RULOPAK FOAM SOAP

SDS No: 158128

Compiling date: 27.02.2021

Revision number: 01

Revision Date: First issue

1. IDENTIFICATION OF THE SUBSTANCES/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of substance/mixture

Product name RULOPAK FOAM SOAP

Description Hand Cleaner

1.2 Relevant Identified Uses/Uses Advised Against

Identified Uses Hand Cleaner

Uses Advised Against No specific uses advised against are identified.

1.3 Details of the Supplier of the Safety Data Sheet

Company RULOPAK HİJYEN SİSTEMLERİ SAN. VE TİC. A.Ş.

Address YAKUPLU BAKIRCILAR SANAYİ SİTESİ. ORKİDE CADDESİ. NO:16

BEYLİKDÜZÜ/İSTANBUL-TÜRKİYE

Telephone +90 0 212 876 90 90

Fax -

Web Address www.rulopak.com.tr

E-mail Address gozde.karaman@rulopak.com.tr

1.4 Emergency Telephone Numbers

Supplier Company Emergency +90 0 212 876 90 90

Emergency Telephone Number 112

Yetkili Kişi – Tel -eMail Süleyman Güven - +9 0555 678 12 58 - suleyman_guven88@hotmail.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Skin irritation, Category 2, H315 Skin

Serious eye damage, Category 1, H318

Hazardous to the aquatic environment,

Chronic, Category 3; H412

NOTE: See Section 4.2 for symptoms and Section 11 for more detailed information on health effects.

2.2 Label elements

2.2.1 Labeling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Hazard symbols



DANGER

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains perfume and preservative. May produce an allergic reaction.

Precautionary statements

P102 Keep out of reach of children.

P273 Avoid release to the environment.

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

P302+P352

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

P501 Dispose of container only when totally empty

2.3 Other hazards

No additional hazards are known except those derived from the labeling.

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Persistent, bioaccumulative and toxic (PBT)/Very persistent and very bioaccumulative (vPvB) assessment is not available.

Hazard-determining components of labeling: Perfume

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable, product is a mixture.

3.2 Mixtures

INGREDIENT	IDENTIFIERS	%	CLASSIFICATION
SLES	EINECS1 NO: 209-553-4 CAS2 NO: 68585-34-2 INDEX NO3: - REACH REGIST. NO:	<5	DANGER Skin irritation, Cat. 2; H315 Serious eye damage, Cat. 1, H318 Hazardous to the aquatic environment, Chronic, Cat. 3; H412
BETAIN 45	EINECS NO:263-058-8 CAS NO:61789-40-0 INDEX NO : REACH REGIST. NO: -	<5	WARNING Skin irritation, Cat. 2; H315 Serious eye irritation, Cat. 2; H319
GLISERIN	EINECS NO: 200-289-5 CAS NO: 56-81-5 INDEX NO: - INCI NAME: Glycerin REACH REGIST. NO: 01-2119471987-18-XXXX	<1	Not classified as hazardous according to the EC Regulation 1272/2008/EC
Preservative	EINECS NO: - CAS NO: INDEX NO : REACH REGIST. NO: -	<0,1	DANGER Skin corrosion, Cat. 1; H314 Skin sensitization, Cat. 1; H317 Hazardous to the aquatic environment, Chronic, Cat. 2; H411
FRAGRANCE	EINECS NO: - CAS NO: - INDEX NO: - INCI NAME: Parfum REACH REGIST. NO: -	<0,5	WARNING Skin irritation, Cat. 2; H315 Skin sensitization, Cat. 1; H317 Hazardous to the aquatic environment, Chronic, Cat. 2; H411
CITRIK ASIT MONOHYDRATE	EINECS NO: 201-069-1 CAS NO: 77-92-9 INDEX NO: - INCI NAME: Citric acid REACH REGIST. NO: 01-2119457026-42-XXXX	<0,02	WARNING Eye irritation, Cat. 2; H319
BENZEFENON 4	EINECS NO: 207 - 838 - 8 CAS NO: 497 - 19 - 8 INDEX NO : - REACH REGIST. NO: -	<0,01	WARNING Eye irritation, Cat. 2; H319
Clorant: Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)]amino]-2'-sulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene]-(3-sulphonatobenzyl)ammonium, disodiumsalt + Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate	EINECS NO: 207 - 838 - 8 CAS NO: 497 - 19 - 8 INDEX NO : - REACH REGIST. NO: -	<0,05	Hazardous to the aquatic environment, Chronic, Cat. 3; H412

NOTE: Any impurities required to be classified or that affect the classification of the product: None
See Section 16 for the full text of the H statements declared above.

4. FIRST AID MEASURES

4.1 Description of first aid measures

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Following inhalation	Remove from contaminated area, lay patient down, keep warm and rested. Obtain medical attention.
In case of skin contact	Wash with plenty of water. If irritation occurs, continues and/or worsens consult a physician.
In case of eye contact	Wash out immediately with fresh running water for several minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
If swallowed	Seek medical attention if irritation occurs. Do not induce vomiting. If the person is conscious, wash out mouth thoroughly with water. Never give anything to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	No adverse effect expected
Skin	Causes irritation in case of repeated and /or prolonged exposure. Contains ingredients which may cause sensitization by skin contact, people who are sensitive to chemicals should be careful when using the product
Eyes	Causes serious eye damage. Swelling, epithelial tissue damage, corneal clouding and inflammation of the iris layer may occur.
Ingestion	May be harmful if swallowed. May cause irritation in the gastrointestinal tract. Nausea, vomiting and diarrhea may also be seen.

4.3 Indication of any immediate medical attention and special treatment needed

Nausea, vomiting and diarrhea may be seen when swallowed.
Thoroughly observe the patient and treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Use the type of extinguisher which is appropriate for the type of fire and environment
Unsuitable extinguishing media	Do not use water jet since it may expand the fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Unusual fire & explosion hazards

5.3 Advice for firefighters

Special firefighting procedures	Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Water used to extinguish fire should not enter drainage systems, soil, or stretches of water. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.
Special protective equipment for firefighting	Use self-contained breathing apparatus, and full protective clothing in case of fire.

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Ensure adequate ventilation, avoid inhalation of vapors/dusts, avoid contact with eyes.
Prevent further leakage or spillage if safe to do so.
Keep away from incompatible products and evacuate the area.

6.1.2 For emergency responders

Evacuate personnel to safe areas.
Ensure adequate ventilation, avoid inhalation of vapors/dusts, avoid contact with eyes.
Consider exposure limits and use personal protective equipment referred in Section 8.

6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.
Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and materials for containment and cleaning up

Remove with an inert non-combustible absorbent (like vermiculite, sand, cat litter) and dispose of absorbent as hazardous waste according to local, state and federal regulations.
Wash the contaminated surface with water.
Dispose of waste material according to local, state and federal regulations

6.4 Reference to other sections

See Section 7 for safe handling.
See Section 8 for exposure controls and personal protection.
See Section 13 for disposal considerations.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with the general rules of occupational hygiene and safety.
Avoid inhalation of vapors, contact with eyes and skin.
Do not eat, drink or smoke in production area, wash thoroughly after handling the material.
Use personal protective equipment. Label containers clearly, do not leave containers open.
The substance must not be present at workplaces in quantities above that required for work to be progressed.
Remove contaminated clothing and protective equipment before entering eating areas.
Always have on hand a first-aid kit, together with proper instructions

7.2 Conditions for safe storage including any incompatibilities

Store in a cool, dry, well-ventilated area protected from environmental extremes.
Protect from heat, flames and sparks, extremes of temperature and direct sunlight.
Store away from food, drink and animal feeding stuffs and foodstuff containers.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe manufacturer's storing and handling recommendations, take all precautions mentioned in this document.
Store away from strong oxidizing agents.
Observe the national and local regulations concerning handling and storage.

7.3 Specific end use(s)

The identified uses for this product are given in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

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No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

DNEL⁴/DMEL⁵ values:

Component	Route of exposure	Personnel	Exposure frequency	Limit value	Remarks
Sodium chloride [CAS# 7647-14-5]	Inhalation	Workers	Short Term (systemic)	2068,6 mg/m ³	DNEL
	Inhalation	Workers	Long Term (systemic)	2068,6 mg/m ³	DNEL
	Inhalation	General population	Short Term (systemic)	443,28 mg/m ³	DNEL
	Inhalation	General population	Long Term (systemic)	443,28 mg/m ³	DNEL
	Oral	General population	Long Term (systemic)	126,65 mg/kg	DNEL
	Oral	General population	Short Term (systemic)	126,65 mg/kg	DNEL
	Dermal	Workers	Short Term (systemic)	295,5 mg/kg	DNEL
	Dermal	Workers	Long Term (systemic)	295,5 mg/kg	DNEL
	Dermal	General population	Short Term (systemic)	126,65 mg/kg	DNEL
	Dermal	General population	Long Term (systemic)	126,65 mg/kg	DNEL
Glycerol [CAS# 56-81-5]	Inhalation	General population	Long term (local)	33 mg/m ³	DNEL
	Oral	General population	Long Term (systemic)	229 mg/kg	DNEL
	Inhalation	Workers	Long term (local)	56 mg/m ³	DNEL

PNEC⁶ values:

Component	Environmental compartment	Limit value
Glycerol [CAS# 56-81-5]	Fresh water	0,885 mg/l
	Marine water	0,0885 mg/l
	Soil	0,141 mg/kg
Citric acid [CAS# 77-92-9]	Fresh water	0,44 mg/l
	Marine water	0,044 mg/l
	Soil	33,1 mg/kg

8.2 Exposure controls

8.2.1 Process conditions/Engineering measures

Ensure adequate ventilation, especially in confined areas, consider emission limit values.

Use closed apparatus if possible, if release of the substance cannot be prevented, then it should be suctioned off at the point of exit.

Ensure that eye flushing systems and safety showers are located close to the working place.

8.2.2 Personal protective equipment



Respiratory protection

Not necessary under conditions of normal use.

In case of emergency, conditions like insufficient ventilation or unintentional release of the substance, wear respirators with A-P3⁷ combined filter (Color code: Brown-white) complying with EN141⁸.



Eye/Face protection

Not necessary under conditions of normal use.

In an emergency or during manufacture wear goggles or glasses with side protection complying with EN166.⁹



Hand protection

Not necessary under conditions of normal use.

Wear PVC protective gloves complying with EN 374¹¹ during manufacture.



Body protection

Not necessary under conditions of normal use.

During manufacture, wear complete suit protecting against chemicals complying with EN 340¹¹

8.2.3 Environmental exposure controls

Avoid release to the environment, try to prevent the material from entering drains or water courses.

Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State (@STP)	Liquid
Color	Blue
Odor	Characteristic
MELTING POINT OR RANGE	Not determined.
Density	590 g/l
pH	~5-6
Solubility in water	Soluble

9.2 Other information

Partition coefficient n-Octanol/Water (log Po/w)	Not determined
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10. STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive under normal conditions of use.

10.2 Chemical stability

Product is considered stable under the recommended usage and storage conditions.

10.3 Possibility of hazardous reactions

May give exothermic reactions with oxidizing agents.

10.4 Conditions to avoid

Heat, flames and sparks, extremes of temperature.

10.5 Incompatible materials

Strong acids, strong oxidizers.

10.6 Hazardous decomposition products

Upon burning toxic fumes of carbon monoxide (CO), carbon dioxide (CO₂), sulfur oxides (SO_x), oxides of nitrogen (NO_x) and various hydrocarbons may be emitted.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	<p>Amphoteric surface active agent [CAS# -]:¹³ LD50 Oral: >5000 mg/kg (Rabbit)</p> <p>LD50 Dermal: >2000 mg/kg (Rabbit)</p> <p>Sodium chloride [CAS# 7647-14-5]: LD50 Oral: 3000 mg/kg (Rat) LD50 Dermal: >2000 mg/kg (Rat)</p> <p>Nonionic surface active agent [CAS# -]:¹⁴ LD50 Oral: >2000 mg/kg (Rat)</p> <p>LD50 Dermal: >2000 mg/kg (Rabbit) Glycerol [CAS# 56-81-5]:</p> <p>LD50 Oral: 12600 mg/kg (Rat)¹⁵ LD50 Dermal: 10000 mg/kg (Rabbit)¹⁶ Preservative [CAS# -]:¹⁷</p> <p>LD50 Oral: 3310 mg/kg (Female rat) LD50 Oral: >5000 mg/kg (Male rat) LD50 Dermal: >5000 mg/kg (Rabbit) Citric acid [CAS# 77-92-9]:</p> <p>LD50 Oral: 5040 mg/kg (Mouse)</p> <p>LD50 Dermal: >5000 mg/kg (OECD 402, Rat)</p>
Skin Corrosion/Irritation	Causes skin irritation.

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Eye Corrosion/Irritation	Causes serious eye damage.
Sensitization	Contains ingredients which may cause sensitization by skin contact. May produce an allergic reaction. <u>Nonionic surface active agent [CAS# -]:</u> Not a skin sensitizer. ¹⁸ <u>Preservative [CAS# -]:</u> Causes allergic skin reactions (Guinea pig) ¹⁹
Mutagenicity	Based on available data, the classification criteria are not met. <u>Nonionic surface active agent [CAS# -]:</u> Not mutagenic based on in vitro Ames test results with <i>S.typhimurium</i> strains TA 1535, TA 1537, TA 98 and TA100. In vivo mammalian (monkey) erythrocyte micronucleus test results are negative. ²⁰
Carcinogenicity	No component of this product present at levels greater than or equal to 0,1% is identified as probable, possible or confirmed human carcinogen by NTP, ²¹ IARC ²² or OSHA ²³
Fertility, Reproductive and Developmental Toxicity (Teratogenicity)	Based on available data, the classification criteria are not met. <u>Nonionic surface active agent [CAS# -]:</u> No developmental toxic effects were observed in orally exposed rats at doses up to 1000 mg/kg/day. ²⁴ <u>Preservative [CAS# -]:</u> Not a reproductive hazard, did not show teratogenic effects in animal experiments. ²⁵
Specific Target Organ Toxicity -Single exposure	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity -Repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met

General information

The information given in this section does not belong to the product itself but derived from the eco-toxicity data of its ingredients.

12.1 Toxicity

Nonionic surface active agent [CAS# -]:²⁶

Acute Fish Toxicity (LC50, 96 hours): 2,4 mg/l (*Oncorhynchus mykiss*) Chronic

Fish Toxicity (NOEC, 28 days): 0,32 mg/l (*Oncorhynchus mykiss*)

Acute Aquatic Invertebrates Toxicity (EC50, 48 hours): 3,2 mg/l (*Daphnia magna*) Chronic

Aquatic Invertebrates Toxicity (NOEC, 21 days): 0,07 mg/l (*Daphnia magna*) Acute Aquatic

Plants Toxicity (ErC50, 72 hours): 7,4 mg/l (*Scenedesmus subspicatus*) Chronic Aquatic

Plants Toxicity (NOEC, 72 days): 0,3 mg/l (*Scenedesmus subspicatus*) Glycerol [CAS# 56-81-5]:

Acute Fish Toxicity (LC50, 96 hours): 68100 mg/l²⁷

Acute Aquatic Invertebrates Toxicity (EC50, 24 hours): >10000 mg/l (*Daphnia magna*)²⁸

Colorant [CAS# -]:²⁹

Acute Fish Toxicity (LC50, 96 hours): 412 mg/l (*Oncorhynchus mykiss*)

Acute Aquatic Invertebrates Toxicity (EC50, 48 hours): >5000 mg/l (*Daphnia magna*) Citric

acid [CAS# 77-92-9]:

Acute Fish Toxicity (LC50, 48 hours): 440 mg/l (Static, OECD 203)

Acute Aquatic Invertebrates Toxicity (EC50, 24 hours): 1535 mg/l (*Daphnia magna*, Static, OECD 203)

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12.2 Persistence and degradability

Nonionic surface active agent [CAS# -]:

Readily biodegradable.³⁰

Glycerol [CAS# 56-81-5]:

Readily biodegradable (63% in 14 days, Aerobic)³¹ BOD₅: 700 mg O₂/l COD: 1160 mg/g

12.3 Bio accumulative potential

Nonionic surface active agent [CAS# -]:

Has a low bioaccumulation potential (BCF: 65,36).³²

Glycerol [CAS# 56-81-5]:

Does not bio accumulate (LogPow: -2,66 – -2,47 (Calculated value)³³

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

Amphoteric surface active agent [CAS# -]:

Contains no component considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.³⁴

Nonionic surface active agent [CAS# -]:

Not PBT / vPvB.³⁵

Glycerol [CAS# 56-81-5]:

Not PBT / vPvB.³⁶

Colorant [CAS# -]:

Contains no component considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.³⁷

12.6 Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose of in accordance with appropriate local regulations.

Do not allow wash water from cleaning or process equipment to enter drains, it may be necessary to collect all wash water for treatment before disposal.

Recycle wherever possible or consult manufacturer for recycling options.

According to the European Waste Catalogue (EWC³⁸), waste codes are not product specific but application specific, Waste Codes should be assigned by the user based on the application in which the product is used.

The final classification has to be done together with the local waste disposal company/authority.

The EWC code listed below is intended as a recommendation for users. EWC Code: **20 01 29** Detergents containing dangerous substances.

Contaminated packaging

Contaminated packaging can be disposed in the same way as the product.

14. TRANSPORT INFORMATION

UN 1760 CORROSIVE LIQUID, N.O.S., 8, III (E)

(5-Chloro-2-methyl-4-isothiazolin-3-one, 2-Methylisothiazol-3(2H)-one)

TRANSPORT	SYMBOL	CLASS	PACK. GROUP	CLASS. CODE	LABEL. NO	HIN NO ³⁹	EmS	MARINE POLLUTANT
ADR ⁴⁰ /RID ⁴¹ (Road / Railroad)		8	III	C9	8	80	-	-
ADNR ⁴² (River)		8	III	-	8	-	-	-

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IMDG⁴³ (Marine)		8	III	-	8	-	F-A;S-B	 YES
ICAO⁴⁴/IATA ⁴⁵ (Airways)		8	III	-	8	-	-	-
MARPOL 73/78 Annex II⁴⁶ / Carriage of chemicals in bulk (IBC⁴⁷ Code): IBC02								
Special provisions: 274								
Limited Quantity/Excepted Quantity: 1 I/E2								
DGR Passenger Aircraft/DGR Cargo Aircraft: 0,5 I/2,5 I								
Tunnel Restriction Code: E								

15. REGULATORY INFORMATION

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV (List of substances subject to authorization- Substances of very high concern)	None of the components are listed Annex XVII
Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable
Directives 67/548/EEG and 99/45/EEG	No identification according to criteria needed
EU Regulation (EC) No 2037/2000 (Ozone Depleting Substances)	Not applicable
Regulation (EC) No 850/2004 (Persistent Organic Pollutants)	Not applicable
Regulation (EC) No 689/2008 (Export and import of dangerous substances)	Not applicable
Directive 2002/95/EC (RoHS)	Not applicable
Directive 2002/96/EC (WEEE)	Not applicable
Directive 1999/13/EC (VOC)	Not applicable
EU Regulation (EC) No 1223/2009 (Cosmetic products)	Applicable
German regulations concerning the classification of hazards for water (WGK ⁴⁸)	No information available

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Revision comments

This safety datasheet, dated 27.02.2021, is the first issue and complies with the requirements of Regulation (EC) No. 2015/830 (REACH), Annex II - (EC) No 1272/2008 (EU-GHS/CLP).

Full text of H-Statements referred to under Section 3

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Any abbreviations and acronyms used in this document: See footnotes

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Legal disclaimer

The purpose of the above information is to describe the products only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.

¹ EINECS: European Inventory of Existing Commercial Chemical Substances.

² CAS: Chemical Abstracts Service.

³ INDEX No: European number attributed to dangerous chemical substances in accordance with European regulations on classifying, packaging and labeling dangerous chemical substances.

⁴ DNEL: Derived No-Effect Level

⁵ DMEL: Derived Minimal Effect Level

⁶ PNEC: Predicted No-Effect Concentration

⁷ Type A Filter: Filter for organic vapors and solvents / P3 Filter: Filter for toxic particles and for particles with MAK value smaller than 0,1 mg/m³

⁸ EN141: European standard for respiratory protective devices.

⁹ EN 166: European standard for eye and face protection

¹⁰ EN 374: European standard for gloves giving protection from chemicals and micro-organisms.

¹¹ EN340: European standard for protective clothing: General requirements

¹² NTP: National Toxicology Program

¹³ IARC: The International Agency for Research on Cancer

¹⁴ OSHA: Occupational Safety and Health Association

¹⁵ Ref: MSDS Resina EVA Alcudia PA-461, Repsol Quimica S.A., Rev.: 1.0, 01.06.2007.

¹⁶ Ref: MSDS Resina EVA Alcudia PA-461, Repsol Quimica S.A., Rev.: 1.0, 01.06.2007.

¹⁷ EWC: European Waste Katalog

¹⁸ HIN NO: Hazard Identification Number.

¹⁹ ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

²⁰ RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

²¹ ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

²² IMDG: International Maritime Code for Dangerous Goods.

²³ ICAO: International Civil Aviation Organization.

²⁴ IATA: International Air Transport Association.

²⁵ MARPOL 73/78 Annex II: International Convention for the Prevention of Pollution from Ships, Annex II: Regulations for the Control of Pollution by Noxious Liquid Substances in Bulk.

²⁶ IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

²⁷ WGK: Wassergefährdungsklasse / Water hazard classification