

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 DISHWASHER DETERGENT APPLE

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 DISHWASHER DETERGENT APPLE
Description Dishwasher Cleaner

1.2 Relevant Identified Uses/Uses Advised Against

Identified Uses Dishwasher Cleaner
Uses Advised Against No specific uses advised against are identified.

1.3 Details of the Supplier of the Safety Data Sheet

Company RULOPAK HÜYEN SİSTEMLERİ SAN. VE TİC. A.Ş.
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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
Skin sensitization, Cat. 1; H317
Serious eye damage, Category 1, H318
Hazardous to the aquatic environment,
Chronic, Category 3; H411

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



Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 It causes severe eye irritation.

Precautionary statements

P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 IF SKIN irritation occurs: Get medical advice/attention
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P337+P313 If eye irritation persists get medical advice/attention.

2.3 Other hazards

No additional hazards are known except those derived from the labeling

Persistent, bioaccumulative and toxic (PBT)/Very persistent and very bioaccumulative (vPvB) assessment is not available. Hazard-determining components of labeling: Perfume

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)

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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:	<10	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: -	<1	WARNING Skin irritation, Cat. 2; H315 Serious eye irritation, Cat. 2; H319
SODIUM CHLORIDE	EINECS NO: 231-598-3 CAS NO: 7647-14-5 INDEX NO: - INCI NAME:SodiumChloride REACH REGIST. NO: 01-2119485491-33-XXXX	<2,5	Not classified as hazardous according to the EC Regulation 1272/2008/EC
Amides, coco, N,N-bis (hydroxyethyl)	EINECS NO: 271-657-0 CAS NO: 68603-42-9 INDEX NO: - REACH REGIST. NO: -	<1	DANGER Skin irritation, Cat. 2, H315 Serious eye damage, Cat. 1, H318
Linear Alkyl Benzene Sulphonic Acid	EINECS NO: 248-289-4 CAS NO: 27176-87-0 INDEX NO: - REACH REGIST. NO: -	<3	WARNING Eye irritation, Cat. 2; H319
Sodyum hidroksit	EINECS NO: 215-185-5 CAS NO: 1310-73-2 INDEX NO: - REACH REGIST. NO: -	<1	DANGER Skin corrosion, Cat. 1; H314 May be corrosive to metals, H290
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: -	<0,2	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

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)




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SDS No: 158128

Revision number: 01

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Revision Date: First issue

BENZEFENON 4	EINECS NO: 207 – 838 - 8 CAS NO: 497 – 19 - 8 INDEX NO : - REACH REGIST. NO: -	<0,02	 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, disodium salt + 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



- 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.
Seek medical attention if irritation occurs.
- If swallowed** 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.

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 DISHWASHER DETERGENT APPLE

SDS No: 158128

Revision number: 01

Compiling date: 27.02.2021

Revision Date: First issue

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.

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.

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 DISHWASHER DETERGENT APPLE

SDS No: 158128

Compiling date: 27.02.2021

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.

Revision number: 01

Revision Date: First issue

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

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.

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 DISHWASHER DETERGENT APPLE

SDS No: 158128

Compiling date: 27.02.2021

Revision number: 01

Revision Date: First issue



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 regulatory body.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State (@STP)	Liquid
Color	Green
Odor	Apple
MELTING POINT OR RANGE	Not determined.
Density	590 g/l
pH	~6,5-7,5
Viscosity (20 °C)	3500 – 6500 cp
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

Amphoteric surface active agent [CAS# -]:¹³ LD50 Oral: >5000 mg/kg (Rabbit)

LD50 Dermal: >2000 mg/kg (Rabbit)

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 DISHWASHER DETERGENT APPLE

SDS No: 158128

Revision number: 01

Compiling date: 27.02.2021

Revision Date: First issue

	<p><u>Sodium chloride [CAS# 7647-14-5]: LD50 Oral: 3000 mg/kg (Rat) LD50 Dermal: >2000 mg/kg (Rat)</u></p> <p><u>Nonionic surface active agent [CAS# -]:¹⁴ LD50 Oral: >2000 mg/kg (Rat)</u></p> <p><u>LD50 Dermal: >2000 mg/kg (Rabbit) Glycerol [CAS# 56-81-5]:</u></p> <p><u>LD50 Oral: 12600 mg/kg (Rat);¹⁵ LD50 Dermal: 10000 mg/kg (Rabbit)¹⁶ Preservative [CAS# -]:¹⁷</u></p> <p><u>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]:</u></p> <p><u>LD50 Oral: 5040 mg/kg (Mouse)</u></p> <p>LD50 Dermal: >5000 mg/kg (OECD 402, Rat)</p>
Skin Corrosion/Irritation	Causes skin irritation.

Eye Corrosion/Irritation	Causes serious eye damage.
Sensitization	<p>Contains ingredients which may cause sensitization by skin contact. May produce an allergic reaction.</p> <p><u>Nonionic surface active agent [CAS# -]: Not a skin sensitizer.¹⁸</u></p> <p><u>Preservative [CAS# -]:</u></p> <p>Causes allergic skin reactions (Guinea pig)¹⁹</p>
Mutagenicity	<p>Based on available data, the classification criteria are not met. <u>Nonionic surface active agent [CAS# -]:</u></p> <p>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</p>
Carcinogenicity	<p>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 IARC²² or OSHA²³</p>
Fertility, Reproductive and Developmental Toxicity (Teratogenicity)	<p>Based on available data, the classification criteria are not met. <u>Nonionic surface active agent [CAS# -]:</u></p> <p>No developmental toxic effects were observed in orally exposed rats at doses up to 1000 mg/kg/day.²⁴</p> <p><u>Preservative [CAS# -]:</u></p> <p>Not a reproductive hazard, did not show teratogenic effects in animal experiments.²⁵</p>
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.

SAFETY DATA SHEET



According to Regulation No 1907/2006/EC (REACH), Annex II, as amended by
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RULOPAK DISHWASHER DETERGENT APPLE

SDS No: 158128

Revision number: 01

Compiling date: 27.02.2021

Revision Date: First issue

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)

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.

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 DISHWASHER DETERGENT APPLE

SDS No: 158128

Revision number: 01

Compiling date: 27.02.2021

Revision Date: First issue

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

NOT A DANGEROUS GOOD ACCORDING TO TRANSPORT REGULATIONS

TRANSPORT	SYMBOL	CLASS	PACK. GROUP	CLASS. CODE	LABEL. NO	HIN NO ³⁹	EmS	MARINE POLLUTANT
ADR⁴⁰/RID⁴¹ (Road / Railroad)	-	-	-	-	-	-	-	-
ADNR⁴² (River)	-	-	-	-	-	-	-	-
IMDG⁴³ (Marine)	-	-	-	-	-	-	-	NO
ICAO⁴⁴/IATA⁴⁵ (Airways)	-	-	-	-	-	-	-	-

MARPOL 73/78 Annex II²⁵ / Carriage of chemicals in bulk (IBC²⁶ Code): Not applicable

Special provisions: -

Limited Quantity/Excepted Quantity: -/-

DGR Passenger Aircraft/DGR Cargo Aircraft: -/-

Tunnel Restriction Code: -

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/EWG and 99/45/EG	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

SAFETY DATA SHEET



According to Regulation No 1907/2006/EC (REACH), Annex II, as amended by
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RULOPAK DISHWASHER DETERGENT APPLE

SDS No: 158128

Compiling date: 27.02.2021

(REACH), Annex II - (EC) No 1272/2008 (EU-GHS/CLP).

Revision number: 01

Revision Date: First issue

Full text of H-Statements referred to under Section 3

- H315** Causes skin irritation.
H318 Causes serious eye damage.
H319 It causes severe eye irritation.

Any abbreviations and acronyms used in this document: See footnotes

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 Alcludia PA-461, Repsol Quimica S.A., Rev.: 1.0, 01.06.2007.

¹⁶ Ref: MSDS Resina EVA Alcludia 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 ADNR: 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