

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), (EC) No. 878/2020

Version: 1.0

Date of issue: 29/08/2025

Revision Date: ---

LAUROKYD F-320 Coating Resin

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

1.1 Product Identifier

Product Name : LAUROKYD F-320
Unique formula identifier (UFI) : FS00-T0HK-500T-SMQK

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

Use of the Substance/Mixture : Coating resin
For professional users only

1.3 Details of the supplier of the safety data sheet

Company (Manufacturer/Distributor) : YOSHINO LTD
Foreign Branch
Pentelis 34A
17564, Paleo Faliro – Greece
Telephone : +30 2112123765

1.4 Emergency telephone number

Poison Centre Telephone: +30 210 7793777
Company Telephone: +30 2112123765, 09:00-17:00
Email: info@yoshino.gr
Website: www.yoshino.gr

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3	H226: Flammable liquid and vapour.
STOT RE 2	H373: May cause damage to organs (ototoxicity) through prolonged or repeated exposure
Acute Tox. 4	H332: Harmful if inhaled
Skin Irrit. 2	H315: Causes skin irritation
Eye Irrit. 2	H319: Causes serious eye irritation
STOT SE 3	H335: May cause respiratory irritation

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Aquatic Chronic 3

H412: Harmful to aquatic life with long lasting effects

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)



GHS02



GHS07



GHS08

Signal word

Warning

Hazard statements

H226	Flammable liquid and vapour.
H373	May cause damage to organs (ototoxicity) through prolonged or repeated exposure.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

General:	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read carefully and follow all instructions.
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Prevention:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P243: Take action to prevent static discharges. P260: Do not breathe dust/fume/gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response:	P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously 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. P362 + P364: Take off contaminated clothing and wash it before reuse. P370 + P378: In case of fire: Use foam, CO ₂ or dry powder to extinguish. P312: Call a POISON CENTER or doctor/physician if you feel unwell.
Storage:	P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up.
Disposal:	P501: Dispose of contents/container in accordance with local regulations.
Hazardous substances:	Xylene (reaction mass of ethylbenzene and xylene), N-butyl acetate
Additional labelling:	Not applicable

2.3 Other hazards

None of the components of the mixture meet the criteria for classification according to Regulation (EC) No. 1907/2006, Annex XIII, as PBT or vPvB, or as endocrine disruptors.

For the full text of the H-Phrases referred to in this section, see section 16.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Hazardous ingredients

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Chemical name	CAS-No.	Classification (1272/2008/EC)	Concentration [% w/w]	Specific Concentration Limits	M-Factors
	EC-No.				
	Registration number				
Xylene (reaction mass of ethylbenzene and xylene)	-	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Acute Tox. 4 H312, Skin Irrit. 2 H315, Eye Irrit. 2 H319, Acute Tox. 4 H332, STOT SE 3 H335, STOT RE 2 H373 (ototoxicity), Aquatic Chronic 3, H412	30-45	-	-
	905-588-0				
N-butyl acetate	123-86-4	Flam. Liq. 3 H226, STOT SE 3 H336 EUH066	<2.5	-	-
	204-658-1				

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

: Never administer anything orally without medical guidance. In the case of an accident or are feeling unwell, contact the Poison Control Centre or seek medical advice. Carefully read and follow all of the instructions on the label.

In case of inhalation

: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

In case of skin contact

: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

In case of eye contact

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

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In case of ingestion : Not likely to be ingested due to its high viscosity. In case of accidental ingestion, do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Contact the Poison Control Center and seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms after:

- **Inhalation:** Harmful if inhaled. Some ototoxic products can have secondary effects on the central nervous system. Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Inhalation of vapour may cause respiratory tract irritation. Irritation may lead to chemical pneumonitis and pulmonary oedema. May cause vomiting, diarrhoea, haemorrhage, laboured breathing, weakness, unsteady gait and coma.
- **Skin contact:** Harmful if absorbed through the skin. Exposure may cause irritation characterized by redness, dryness, and inflammation. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis. Substance is readily absorbed through the skin.
- **Eye contact:** Causes redness and pain. May cause severe eye irritation and possible injury.
- **Ingestion:** Causes gastrointestinal irritation with nausea, vomiting and diarrhoea. Exposure may cause anaemia and other blood abnormalities. May cause effects similar to those of acute inhalation.
- **Chronic effects:** Prolonged or repeated skin contact may cause defatting and dermatitis. May cause liver and kidney damage. Effects may be delayed. Narcotic in high concentrations.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Call a POISON CENTER/doctor if you feel unwell.

Medical information: Bring this safety data sheet or the label from this product.

Symptomatic treatment should be provided.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing agents** : The material is flammable and sustains combustion. If the product is involved in a fire, use: foam, carbon dioxide or dry powder, whilst taking into account the other participating materials.
- Unsuitable extinguishing agents** : Water is NOT suitable

5.2 Special hazards arising from the substance or mixture

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- Specific hazards when extinguishing a fire** : Hazardous decomposition products in case of a fire: As with all organic materials, toxic gases can be released in case of fire (CO). No action should be taken when personnel is at risk or without the personnel having the proper training. Remove personnel that is not in the fire-fighting team.
- Approach the fire from the side that has the same direction as the wind. Remove the product from the fire if it is possible to do so without danger. Use a self-contained breathing apparatus when coming into contact with fumes.
- To cool products that are near the fire, use: water spray, foam, carbon dioxide or dry powder.

5.3 Advice for firefighters

- Special protective equipment for firefighters** : Firefighters should wear appropriate protective gear and a positive pressure self-contained breathing apparatus (SCBA) with a full face mask.
- Clothing for firefighters (including helmets, protective boots and gloves) that complies with the European standard EN 469 will provide a basic level of protection in the case of chemical incidents.
- Other information** : Fire residue and contaminated extinguishing by-products must be disposed of in accordance with local authority guidelines.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For large area release: Evacuate non-essential personnel. Use appropriate protective equipment, eye/face protection and appropriate gloves. Ensure adequate ventilation and respiratory protection. The incident should be dealt with by appropriately trained personnel.

6.2 Environmental precautions

Avoid runoff into storm sewers and ditches which lead to waterways.

6.3 Methods and materials for containment and cleaning up

Locate and isolate the source of the leak if it is safe to do so.

Scoop up the product with a nonsparking tool, then place into a suitable container for disposal. Use water spray to disperse the gas/ vapour. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as mud, sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation.

Non-standard or contaminated products must be disposed of as hazardous waste in accordance with national regulations.

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6.4 Reference to other sections

See section: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling	:	Wash hands and exposed skin thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Empty containers retain product residue, (liquid and/ or vapour), and can be dangerous. Take precautionary measures against static discharges. Do not get on skin or in eyes. Do not ingest or inhale. Wear personal protective equipment (see section 8). Do not eat, drink or smoke when handling.
Protection against fire or explosion	:	Protection from ignition sources
Dust explosion class	:	Non-applicable.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in accordance with local regulations. Store away from flammable materials and moisture. Store in the original container protected from direct sunlight in a dry, cool and ventilated area, away from incompatible materials (see section 10). Keep container closed until use. Opened containers should be carefully resealed and kept upright to prevent spillage of the product.
Tips for shared storage	:	Keep away from food, drink and animal feed. Keep away from children.
Storage temperature	:	Ambient temperature (5 - 30°C)
Other information	:	The product is flammable.

7.3 Specific end use(s)

Coating resin

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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The product does not contain substances for which critical occupational exposure limits have been established and should be reviewed based on Greek Legislation. However, the limit recommendations from the Manufacturers based on the safety data sheets of the raw materials are listed below for further information.

Work place limits that have to be followed and supervised:

Xylene (reaction mass of ethylbenzene and xylene)	
TWA	short-term exposure limit: 650 mg/m ³ , 150 ppm long-term exposure limit: 435 mg/m ³ , 100 ppm
N-butyl acetate	
TWA	short-term exposure limit: 723 mg/m ³ , 150 ppm long-term exposure limit: 241 mg/m ³ , 50 ppm

DNEL

Xylene (reaction mass of ethylbenzene and xylene) | EC: 905-588-0

Duration:	Route of Exposure:	DNEL:
Long term – Systemic effects - Workers	Inhalation	221 mg/m ³
Short term – Systemic effects – Workers	Inhalation	442 mg/m ³
Long term – Local effects – Workers	Inhalation	221 mg/m ³
Short term – Local effects – Workers	Inhalation	442 mg/m ³
Long term – Systemic effects – Workers	Dermal	212 mg/kg bw/day
Long term – Systemic effects - Consumers	Inhalation	65,3 mg/m ³
Short term – Systemic effects – Consumers	Inhalation	260 mg/m ³
Long term – Local effects – Consumers	Inhalation	65,3 mg/m ³
Short term – Local effects – Consumers	Inhalation	65,3 mg/m ³
Long term – Systemic effects – Consumers	Dermal	125 mg/kg bw/day
Long term – Systemic effects - Consumers	Oral	12,5 mg/kg bw/day

N-butyl acetate | CAS: 123-86-4

Duration:	Route of Exposure:	DNEL:
Long term – Systemic effects - Workers	Inhalation	300 mg/m ³
Short term – Systemic effects – Workers	Inhalation	600 mg/m ³
Long term – Local effects – Workers	Inhalation	300 mg/m ³
Short term – Local effects – Workers	Inhalation	600 mg/m ³
Long term – Systemic effects – Workers	Dermal	11 mg/kg bw/day
Short term – Systemic effects – Workers	Dermal	11 mg/kg bw/day
Long term – Systemic effects - Consumers	Inhalation	35,7 mg/m ³
Short term – Systemic effects – Consumers	Inhalation	300 mg/m ³
Long term – Local effects – Consumers	Inhalation	35,7 mg/m ³

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Short term – Local effects – Consumers	Inhalation	300 mg/m ³
Long term – Systemic effects – Consumers	Dermal	6 mg/kg bw/day
Short term – Systemic effects - Consumers	Dermal	6 mg/kg bw/day
Long term – Systemic effects - Consumers	Oral	2 mg/kg bw/day
Short term – Systemic effects – Consumers	Oral	2 mg/kg bw/day

8.2 Exposure controls

Appropriate engineering controls

Use adequate ventilation to keep airborne concentrations low.

Personal protection equipment

- Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines, or when there isn't sufficient ventilation. Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149 if respiratory protection is needed. Respiratory protection is not needed in a good ventilated space.
- Hand protection
- Material : Glove use
: Nitrile gloves, chemical resistant gloves, protective gloves (EN 374, EN 420) and gloves for protection against mechanical hazards (EN 388).
- Glove thickness : ---
- Durability : ---
- General notes : The final choice of glove material should be made taking into account penetration time, degree of permeability and frequency of use.
- Eye and face protection : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin and body protection : Body protection wear is selected depending on the amount and concentration of the hazardous substance in the workplace.
- Hygiene measures : Recommended protective measures to be taken into account when handling chemicals:
- General practical hygiene measures.
 - Do not inhale the vapors.
 - When using it do not eat, drink or smoke.
 - Wash hands after handling the product.
 - Avoid contact with skin and eyes.

Environmental exposure controls

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General advice : Uncontrolled discharge of unused product into surface waters or sewers is prohibited.
Dispose of the product and packaging in accordance with local, national and international Regulations.
If the product leaks into rivers or lakes, inform the relevant authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State:	Liquid
Appearance:	Clear, yellowish to brown
Odour:	Slight, xylene
PH:	N/A
Vapor Pressure:	5 mbar
Viscosity:	(25°C) 40 - 70 dPa.s
Boiling Point:	130-150 °C
Freezing/Melting Point:	N/A
Autoignition Temperature:	500°C
Flash Point:	25°C
Explosion Limits, lower:	(xylene) 1.1% v
Explosion Limits, upper:	(xylene) 6,6% v
Decomposition Temperature:	N/A
Solubility in water:	No
Specific Gravity/Density:	1,0 g/ml
Solubility in solvent:	Hydrocarbons
Non-volatile:	60%

9.2 Other information

None known.

SECTION 10: Stability and reactivity

10.1 Reactivity

Non-reactive.

10.2 Chemical stability

The product is stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions if used for the intended purpose.

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10.4 Conditions to avoid

Elevated temperatures and all sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous polymerization does not occur. Under normal storage and handling conditions, no hazardous decomposition products should be produced. But it can decompose if heated. Depending on the conditions, decomposition can release toxic gases such as CO.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Hazardous health effects

No others are mentioned beyond:

11.1.1. Ingestion:

Based on the available data, the classification criteria are not met, however the product may cause harm if swallowed (see section 3).

11.1.2. Inhalation:

Based on the available data, the classification criteria are not met (see section 3).

11.1.3. Skin and eye contact:

Causes skin and serious eye irritation (for more information see section 3).

11.1.4. CMR effects (Carcinogenic, mutagenic and reprotoxic):

Based on the available data, the classification criteria are not met (see section 3).

11.1.5. Respiratory or skin sensitization:

Based on the available data, the classification criteria are not met (see section 3).

11.1.6. Specific target organ toxicity (STOT) - single exposure:

May cause respiratory irritation (see section 3).

11.1.7. Specific target organ toxicity (STOT) – repeated exposure:

May cause damage to organs (ototoxicity) through prolonged or repeated exposure.

11.1.8. Aspiration hazard:

The product does not have a kinematic viscosity $\leq 20.5 \text{ mm}^2/\text{s}$, measured at 40 °C, no aspiration hazard, classification criteria not met (see section 3).

The available data of the individual components per route of exposure are listed.

Xylene (reaction mass of ethylbenzene and xylene):

Acute oral toxicity LD50 rat	3.523 mg/kg
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Acute skin toxicity LD50 rabbit	12.126 mg/kg
Acute inhalation toxicity (vapors) LC50/4 h rat	27,124 mg/l

N-butyl acetate:

Acute oral toxicity LD50 rat	13.100 mg/kg
Acute skin toxicity LD50 rabbit	> 5.000 mg/kg
Acute inhalation toxicity (vapors) LC50/4 h rat	> 21 mg/l

Neurological effects

: There is no harmful effect or critical risk

Toxicological assessment

Toxicity, Metabolism, Distribution

No adverse effect observed

Acute effects

STOT-single exposure: Category 3 (Narcotic effect):

This product can have an effect on the central nervous system. Inhalation of high concentration vapor can cause loss of consciousness.

Other information

Endocrine disrupting properties: not applicable.

SECTION 12: Ecological information

12.1 Toxicity

Information on the individual components with environmental hazards are listed

Aquatic Toxicity:	
Xylene (reaction mass of ethylbenzene and xylene)	
EC50	1,3 mg/kg (Seaweed)
EC50	1 mg/l (Daphnia sp. Acute Immobilisation Test)
LD50	2,6 mg/l (Freshwater fish, Acute Toxicity Test)
NOEC	0,96 mg/l (Water flea) 1,3 mg/l (Daphnia)

Aquatic Toxicity:	
N-butyl acetate	
EC50	356 mg/l (microorganisms)

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EL50	397 mg/l (Seaweed) 44 mg/l (Daphnia)
LD50	18 mg/l (Freshwater fish)

12.2 Persistence and degradability

Biodegradability

: Readily biodegradable. Oxidizes in the air by photochemical reactions

12.3 Bioaccumulative potential

No other relevant information is available.

12.4 Mobility in soil

Surface tension

: No information is available

12.5 Results of PBT and vPvB assessment

This product does not meet the criteria for classification as PBT or vPvB.

12.6 Endocrine disrupting properties

This product does not contain any substances with properties that disrupt the endocrine system.

12.7 Other adverse effects

Additional ecological information

Hazardous to the aquatic environment - slightly hazardous (Aquatic Chronic 3). The product is not allowed to enter the ground water, to be discharged into the aquatic environment or into the sewage system undiluted or in relatively large quantities.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Advice on disposal and packaging

: Recommendation:
The waste code number must be checked with the responsible disposal company and adjusted if necessary.
Disposal must be made according to official regulations.

The following waste codes are only indicative:

Waste code (EWC)

: European Waste Catalog (EWC) disposal code (product):
20 01 27* paint, inks, adhesives and resins containing hazardous substances

Product/packaging disposal

: Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard if heated above 59 °C. Do not puncture, cut or weld uncleaned drums.

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Send to drum recoveree or metal reclaimer. Dispose of in a manner consistent with local regulations.

European Waste Catalog (EWC) disposal code (packaging):
17 04 09* metal waste contaminated with hazardous substances

SECTION 14: Transport information

14.1 UN Number or ID number

ADR/RID, IMDG, ICAO UN 1866

14.2 UN Proper Shipping Name

ADR/RID

1866 RESIN SOLUTION, flammable

IMDG

RESIN SOLUTION flammable

ICAO

Resin solution *flammable*

14.3 Transport Hazard Class(es)

ADR/RID, IMDG, ICAO



Class: 3 Flammable Liquids

Label: 3

14.4 Packing group

ADR/RID, IMDG, ICAO

III

14.5 Environmental hazards: -

14.6 Special precautions for user:

Warning: Flammable liquids

Hazard identification number (Kemler code)	30
EMS Number:	F-E, S-E
Stowage Category	A

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14.7 Maritime transport in bulk according to IMO instruments: Not applicable

Transport/Additional information:

ADR/RID:

Limited quantities (LQ)	5L
Excluded quantities (EQ) Code	E1
Maximum net quantity per inner packaging	30 ml
Maximum net quantity per outer packaging	1000 ml
Transport Group	3
Tunnel restriction codes	D/E

IMDG:

Limited quantities (LQ)	5L
Excluded quantities (EQ) Code	E1
Maximum net quantity per inner packaging	30 ml
Maximum net quantity per outer packaging	1000 ml

SECTION 15: Regulatory information

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

VOC (1999/13/EC)	: Not applicable
Seveso III - Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances	: P5c FLAMMABLE LIQUIDS Threshold value (tons) for lower-tier sites: 5,000 t Threshold value (tons) for upper-tier sites: 50,000 t
REACH Regulation (EC) No 1907/2006	: Concerns the individual substances of the mixture Does not contain any Annex XIV substance (Authorization list) It does not contain any restricted substance from Annex XVII

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	It does not contain any of the substances included on the candidate list that are of very high concern
Regulation EU 649/2012 concerning the export and import of hazardous chemicals	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants	: Not applicable
Regulation (EC) No 1272/2008 – CLP Regulation	: It is classified as a resin product
Other information	: Alkyd resin solution in xylene (mixture of isomers); coating resin

15.2 Chemical safety assessment

-

SECTION 16: Other information

Full text of H-Phrases referred to in sections 2 and 3

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

EUH066: Repeated exposure may cause skin dryness or cracking.

Revised sections:

Abbreviations and acronyms

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road (2015)
CAS No:	Chemical Abstracts Service Number
EmS:	Emergency Schedules
EINECS No:	European Inventory of Existing Commercial Chemical Substances Number
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
IATA-DGR:	International Air Transport Association's Dangerous Goods Regulations (56 th edition)
ICAO-TI:	International Civil Aviation Organization's Technical Instructions
IMDG Code:	International Maritime Dangerous Goods Code (36 th - 37 th amendment)
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail

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This Safety Data Sheet has been compiled on the basis of information available to the manufacturer from the suppliers of the individual components and public databases.

The information contained is believed to be accurate and reliable, provided to ensure the best possible protection during the transport, handling and storage of our products. However, this should not be considered as a quality guarantee or quality specification.

Data sheet, issuing department

For information contact:

YOSHINO LTD

Foreign Branch

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17564, Paleo Faliro – Greece

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