



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Poland

## SAFETY DATA SHEET

Alpha OM-338 Paste Flux Syr 0.01Kg

FOR REGULATORY AND SDS QUESTIONS (EUROPE)

CALL THE PRODUCT STEWARDSHIP LINE

(ENGLISH SPEAKING ONLY)

+1-908-791-2336 (15:00 – 21:00 CET; MONDAY-FRIDAY)

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

#### 1.1 Product identifier

**Product name** : Alpha OM-338 Paste Flux Syr 0.01Kg  
**Product code** : 143999  
**Product type** : Solid.

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

Identified uses
Industrial applications.
Material uses
soldering
Uses advised against
Not applicable.

#### 1.3 Details of the supplier of the safety data sheet

**e-mail address of person responsible for this SDS** : Europeanregulatory@macdermid.com

**Supplier** : ALPHA ASSEMBLY SOLUTIONS  
MacDermid Alpha Hungary kft.  
2. Jedlik Ányos Street  
Dunaharaszti, 2330  
Hungary

**Information contact** : Tel. No.: + 36 (06) 244 60 720  
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E-Mail: salesEU@AlphaAssembly.com

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**1.4 Emergency telephone number****National advisory body/Poison Centre**

Telephone number :

**Supplier**

Telephone number : Chemcare24: 022 307 3690

Hours of operation : 24/7

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Product definition : Mixture

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

Eye Dam. 1, H318

Aquatic Chronic 4, H413

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

(\*) See full text of phrases in section 16

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

**2.2 Label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 - Causes serious eye damage.  
H413 - May cause long lasting harmful effects to aquatic life.

**Precautionary statements**

Prevention : P280 - Wear eye or face protection: Recommended: safety glasses with side-shields  
P273 - Avoid release to the environment.

Response : P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : Carboxylic acids, di-, C4-6  
2-ethylimidazole  
succinic acid

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

**2.3 Other hazards**

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

: Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP] *	Type
complex reaction mass of Chinese gum rosin post reacted with acrylic acid	REACH #: 01-2120117087-62 EC: 434-230-1 CAS: 144413-22-9 Index: 607-682-00-4	≥10 - ≤25	Aquatic Chronic 4, H413	[1]
2-decyltetradecanoic acid	REACH #: 01-2120212152-77 EC: 298-190-5 CAS: 93778-52-0	≤10	Aquatic Chronic 4, H413	[1]
2,2-bis[[(2-hexyl-1-oxodecyl)oxy]methyl]-1,3-propanediyl bis (2-hexyldecanoate)	REACH #: 01-2120771015-61 EC: 262-334-5 CAS: 60623-04-3	≤10	Aquatic Chronic 4, H413	[1]
Carboxylic acids, di-, C4-6	REACH #: 01-2119458864-25 EC: 271-678-5 CAS: 68603-87-2	≤10	Eye Dam. 1, H318	[1]
2-ethylimidazole	REACH #: 01-2120757447-44 EC: 214-011-5 CAS: 1072-62-4	<10	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318	[1]
Castor oil, hydrogenated	REACH #: 01-2119498298-18 EC: 232-292-2 CAS: 8001-78-3	≤5	Aquatic Chronic 4, H413	[1]
succinic acid	REACH #: 01-2119896114-34 EC: 203-740-4 CAS: 110-15-6	≤5	Eye Dam. 1, H318	[1]
(*) See full text of phrases in section 16				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures****Eye contact**

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**SECTION 4: First aid measures**

- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**4.2 Most important symptoms and effects, both acute and delayed****Potential acute health effects**

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : This material may cause long lasting harmful effects to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides

### 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.

## 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 spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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 precautions

- : Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and material for containment and cleaning up

- Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

### 6.4 Reference to other sections

- : 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

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).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : 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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

Industrial applications.  
soldering

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 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.

#### DNELs/DMELs

**SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Type	Exposure	Value	Population	Effects
Carboxylic acids, di-, C4-6	DNEL	Short term Oral	2.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	2.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	8.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	8.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	34 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	34 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	23.875 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	23.875 mg/kg bw/day	General population	Systemic
Castor oil, hydrogenated	DNEL	Long term Dermal	47.75 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	83.045 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	336.75 mg/m <sup>3</sup>	Workers	Systemic
succinic acid	DNEL	Short term Inhalation	10 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	10 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	10 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	10 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	43 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	43 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	67 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	67 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	67 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	67 mg/kg bw/day	Workers	Systemic



**SECTION 8: Exposure controls/personal protection**

	DNEL	Long term Dermal	71 mg/kg bw/day	Workers	Systemic
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**PNECs**

No PNECs available

**8.2 Exposure controls**

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: safety glasses with side-shields

**Skin protection**

**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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): disposable vinyl

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: None assigned.

**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****9.1 Information on basic physical and chemical properties****Appearance**

**Physical state** : Solid. [Paste.]  
**Colour** : Amber.  
**Odour** : Sweetish.  
**Odour threshold** : There are no data available on the mixture itself.  
**pH** : Testing not technically possible.  
**Melting point/freezing point** : 217°C



**SECTION 9: Physical and chemical properties**

<b>Initial boiling point and boiling range</b>	: There are no data available on the mixture itself.
<b>Flash point</b>	: [Product does not sustain combustion.]
<b>Evaporation rate</b>	: There are no data available on the mixture itself.
<b>Flammability (solid, gas)</b>	: There are no data available on the mixture itself.
<b>Upper/lower flammability or explosive limits</b>	: There are no data available on the mixture itself.
<b>Vapour pressure</b>	: There are no data available on the mixture itself.
<b>Vapour density</b>	: There are no data available on the mixture itself.
<b>Density</b>	: There are no data available on the mixture itself.
<b>Solubility(ies)</b>	: Insoluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: There are no data available on the mixture itself.
<b>Auto-ignition temperature</b>	: There are no data available on the mixture itself.
<b>Decomposition temperature</b>	: There are no data available on the mixture itself.
<b>Viscosity</b>	: There are no data available on the mixture itself.
<b>Explosive properties</b>	: There are no data available on the mixture itself.
<b>Oxidising properties</b>	: There are no data available on the mixture itself.

**9.2 Other information**

<b>Solubility in water</b>	: There are no data available on the mixture itself.
<b>VOC content</b>	: 59 % (w/w) [ISO % 11890-2]

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: Not available.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: No specific data.
<b>10.5 Incompatible materials</b>	: See Section 10.1.
<b>10.6 Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Castor oil, hydrogenated	LD50 Oral	Rat	>10 g/kg	-
succinic acid	LD50 Oral	Rat	2260 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.**Acute toxicity estimates**

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**SECTION 11: Toxicological information**

Route	ATE value
Oral	7255.5 mg/kg

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
succinic acid	Eyes - Severe irritant	Rabbit	-	750 ug	-

**Conclusion/Summary**

- Skin** : There are no data available on the mixture itself.
- Eyes** : There are no data available on the mixture itself.
- Respiratory** : There are no data available on the mixture itself.

**Sensitisation****Conclusion/Summary**

- Skin** : There are no data available on the mixture itself.
- Respiratory** : There are no data available on the mixture itself.

**Mutagenicity****Conclusion/Summary**

- : There are no data available on the mixture itself.

**Carcinogenicity****Conclusion/Summary**

- : There are no data available on the mixture itself.

**Reproductive toxicity****Conclusion/Summary**

- : There are no data available on the mixture itself.

**Teratogenicity****Conclusion/Summary**

- : There are no data available on the mixture itself.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** : There are no data available on the mixture itself.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

**SECTION 11: Toxicological information****Long term exposure****Potential immediate effects** : Not available.**Potential delayed effects** : Not available.**Potential chronic health effects**

Not available.

**Conclusion/Summary** : Not available.**General** : No known significant effects or critical hazards.**Carcinogenicity** : No known significant effects or critical hazards.**Mutagenicity** : No known significant effects or critical hazards.**Teratogenicity** : No known significant effects or critical hazards.**Developmental effects** : No known significant effects or critical hazards.**Fertility effects** : No known significant effects or critical hazards.**Other information** : Not available.**SECTION 12: Ecological information****12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
succinic acid	Acute EC50 374200 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours

**Conclusion/Summary** : Not available.**12.2 Persistence and degradability****Conclusion/Summary** : Not available.**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
complex reaction mass of Chinese gum rosin post reacted with acrylic acid	6.04	-	high
2-decyltetradecanoic acid	9.11	-	high
2,2-bis[[(2-hexyl-1-oxodecyl)oxy]methyl]-1,3-propanediyl bis(2-hexyldecanoate)	11.03	-	high
Carboxylic acids, di-, C4-6	-0.55	3.162	low
2-ethylimidazole	1.09	-	low
Castor oil, hydrogenated	18.75	-	high
succinic acid	-0.59	-	low

**12.4 Mobility in soil****Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.**Mobility** : Not available.**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## 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).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised 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 2008/98/EC.

#### European waste catalogue (EWC)

Waste code	Waste designation
16 03 06	organic wastes other than those mentioned in 16 03 05

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No. Not a pollutant.	No.
Additional information	-	-	-

**14.6 Special precautions for user** : **Transport within user's premises:** 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.

**14.7 Transport in bulk according to IMO instruments** : Not available.

**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)****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions** : Not applicable.  
**on the manufacture,  
 placing on the market and  
 use of certain dangerous  
 substances, mixtures and  
 articles**

**Other EU regulations**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures

Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws of 2013, item 888) with later amendments d.

The Act of 14 December 2012 on waste. (Journal of Laws of 2013, item 21) with later amendments d.

The Act of 19 August 2011 on the Transport of Dangerous Goods (Journal of Laws of 2011, No. 227, item 1367) with later amendments d.

Act of 25 February 2011 on chemical substances and mixtures thereof (Journal of Laws of 2011, No. 63, item 322) with later amendments d

Regulation of the Minister of the Environment of 9 December 2014 regarding the waste catalog (Journal of Laws of 2014, item 1923)

Regulation of the Minister of Economy of December 21, 2005 on essential requirements for personal protective equipment (Journal of Laws of 2005, No. 259, item 2173)

Regulation of the Minister of Labor and Social Policy of June 12, 2018 on the highest allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286)

Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classification of chemical substances and their mixtures (Journal of Laws 2015, item 208)

Regulation of the Minister of Health of December 30, 2004 on health and safety at work related to the presence of chemical agents at work (Journal of Laws of 2016, item 1488)

Regulation of the Minister of Health of February 2, 2011 on testing and measurements of harmful factors in the work environment (Journal of Laws 2011, No. 33, item 166)

Regulation of the Minister of Health of 20 April 2012 on the labeling of packaging of dangerous substances and dangerous mixtures and some mixtures (Journal of Laws of 2015, item 450)

**Europe inventory** : At least one component is not listed in EINECS but all such components are listed in ELINCS. Please contact your supplier for information on the inventory status of this material.

**Seveso Directive (2012/18/EU)**

This product is not controlled under the Seveso Directive.

**EU - Restriction of Hazardous Substances Directive (RoHS)**

<b>Ingredient name</b>	<b>CAS no.</b>	<b>Status</b>
Not listed.		

[International regulations](#)[International lists](#)[National inventory](#)

<a href="#">Australia</a>	: Not determined.
<a href="#">Canada</a>	: Not determined.
<a href="#">China</a>	: Not determined.
<a href="#">Japan</a>	: <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<a href="#">Malaysia</a>	: Not determined
<a href="#">New Zealand</a>	: Not determined.
<a href="#">Philippines</a>	: Not determined.
<a href="#">Republic of Korea</a>	: Not determined.
<a href="#">Taiwan</a>	: All components are listed or exempted.
<a href="#">Turkey</a>	: Not determined.
<a href="#">United States</a>	: Not determined.

**15.2 Chemical safety assessment** : Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

**SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Eye Dam. 1, H318 Aquatic Chronic 4, H413	Calculation method Calculation method

**[Full text of abbreviated H statements](#)**

H302 H315 H318 H413	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause long lasting harmful effects to aquatic life.
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**[Full text of classifications \[CLP/GHS\]](#)**

Acute Tox. 4 Aquatic Chronic 4 Eye Dam. 1 Skin Irrit. 2	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2
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**[Notice to reader](#)**

**Date of issue/Date of revision** : 29 March 2022 **Version** : 4.02  
**Date of previous issue** : 8 October 2020

## SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MacDermid Alpha SDS CLP Europe