



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK
REACH Regulation SI 2019/758

SAFETY DATA SHEET

Granofin Easy F-90 liq

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

1.1 Product identifier

Product name : Granofin Easy F-90 liq
Product code : P52800
Product description : Tanning agent
Product type : liquid
Other means of identification : Not available.

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

Identified uses
Product used for treating hides and skins.

Uses advised against
Not applicable.

1.3 Details of the supplier of the safety data sheet

Stahl Europe BV
Sluisweg 10
5145 PE Waalwijk
NL
Telephone: +31416689111
Telefax: +31416344441
Email: msds@stahl.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : Not available.

Supplier

Telephone number : +44 (0) 1235 239 670 (NCEC)
Hours of operation : 24HRS (FOR CHEMICAL EMERGENCIES ONLY)
Information limitations : Not available.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Granofin Easy F-90 liq

Product definition : Mixture

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

Eye Dam. 1, H318

Skin Sens. 1, H317

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.

Precautionary statements

Prevention : P280 - Wear protective gloves. P280 - Wear eye or face protection.
P261 - Avoid breathing vapour.

Response : P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 - IF ON SKIN: P302 + P352 - Wash with plenty of water. P333 - If skin irritation or rash occurs: P333 + P313 - Get medical advice or attention. P305 - IF IN EYES: P305 + P351 + P338 - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P310 - 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 : sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate
1,2-benzisothiazol-3(2H)-one
CMI / MI

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.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards



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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	%	<u>Regulation (EC) No. 1272/2008</u> <u>[CLP]</u>	Type
sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate	REACH#: 01-2119974142-40 EC : 223-989-2 CAS : 4156-21-2	>= 20 - <= 25	Eye Dam. 1, H318 Skin Sens. 1, H317	[1]
CMI / MI	REACH#: Biocide CAS : 55965-84-9 Index : 613-167-00-5	> 0 - < 0,0015	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071	[1]

Type

- [1] Substance classified with a physical, 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

See Section 16 for the full text of the H statements declared above.

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.

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



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	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.
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. Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. 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. 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

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
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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 : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, halogenated compounds, metal oxide/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. Do not breathe vapour or mist. 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).

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute



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- with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
- 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

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.
Keep from freezing. Stir before use.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

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

Product/ingredient name	Type	Exposure	Value	Population	Effects
sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate	DNEL	Long term Inhalation	7,330 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	4,170 mg/kg	Workers	Systemic
CMI / MI	DNEL	Long term Inhalation	0,020 mg/m ³	Workers	Local
	DNEL	Long term Oral	0,090 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	0,020 mg/m ³	General population [Consumers]	Local
	DNEL	Short term Inhalation	0,040 mg/m ³	General population [Consumers]	Local
	DNEL	Short term Oral	0,110 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	0,040 mg/m ³	Workers	Local

PNECs

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
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sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate		Fresh water	2,86 mg/l	-
		Marine	0,286 mg/l	-
		Intermittent release	1 mg/l	-
		Sewage Treatment Plant	32 mg/l	-
		Fresh water sediment	12 mg/kg dwt	-
		Marine water sediment	1,2 mg/kg dwt	-
		Soil	0,718 mg/kg	-
CMI / MI	PNEC	Fresh water	3,39 µg/l	-
	PNEC	Marine	3,39 µg/l	-
	PNEC	Sewage Treatment Plant	0,23 mg/l	-
	PNEC	Fresh water sediment	0,027 mg/kg dwt	-
	PNEC	Marine water sediment	0,027 mg/kg dwt	-
	PNEC	Soil	0,01 mg/kg dwt	-

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. Contaminated work clothing should not be allowed out of the workplace. 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.

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.

Body protection : Personal protective equipment for the body should be selected based



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Other skin protection	:	on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory 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.
Environmental exposure controls	:	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.
	:	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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	liquid [Paste.]
Colour	:	White. / Cream
Odour	:	Characteristic.
Odour threshold	:	Not available.
Melting point/freezing point	:	5 °C (5 °C)
Initial boiling point and boiling range	:	100 °C (100 °C)
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Lower: Not available. Upper: Not available.
Flash point	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
pH	:	4 - 6,5
Viscosity	:	Dynamic : 998 mPa.s Kinematic : Not available.
Solubility(ies)	:	Miscible in water.
Solubility in water	:	Not available.

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Partition coefficient: n-octanol/water : Not applicable.
Vapour pressure : 2,34 kPa @ 20 °C (20 °C)
Evaporation rate : Not available.
Relative density : 1,14 @ 20 °C (20 °C)

Density : 1,14 g/cm³
Vapour density : Not available.
Explosive properties : Not available.
Oxidising properties : Not available.
VOC (2004/42/EC) : 0,074 % w/w

Definition according to EU Directive 2004/42/EC: All organic compounds with a boilingpoint of <= 250 °C at 101,3 kPa

VOC (2010/75/EU) : 0 % w/w

Definition according to EU Directive 2010/75/EU: all organic compounds with a vapour pressure of => 0,01 kPa at 293,15 K

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : Not considered to be reactive according to our database.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : No incompatible product according to our database.
- 10.6 Hazardous decomposition products** : 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
sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate				
	LD50 Oral	Rat	> 2.000 mg/kg	-



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			423 Acute Oral toxicity - Acute Toxic Class Method	
	LD50 Dermal	Rat	> 2.000 mg/kg 402 Acute Dermal Toxicity	-
CMI / MI				
	LD50 Oral	Rat	64 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	0,33 mg/l	4 h
	LD50 Dermal	Rat	87,12 mg/kg	-
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	LD50 Oral	Rat	> 2.000 mg/kg calculated.	-
	LC50 Inhalation Dusts and mists	Rat	> 5 mg/l calculated.	-
	LC50 Inhalation Vapour	Rat	> 20 mg/l calculated.	4 h
	LD50 Dermal	Rabbit	> 2.000 mg/kg calculated.	-

Conclusion/Summary : The product itself has not been tested. The calculated values are based on the available information for the individual ingredients.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapours)	Inhalation (dusts and mists)
CMI / MI	64 mg/kg	87,12 mg/kg	N/A	N/A	0,33 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate	Eyes - Cornea opacity 405 Acute Eye Irritation/Corrosion	Rabbit	2		72 hrs
	Eyes - Iris lesion 405 Acute Eye Irritation/Corrosion	Rabbit	1		72 hrs
	Eyes - Redness of the conjunctivae 405 Acute Eye Irritation/Corrosion	Rabbit	2		72 hrs
	Eyes - Oedema of the conjunctivae 405 Acute Eye Irritation/Corrosion	Rabbit	2		72 hrs
CMI / MI	Skin - Visible necrosis 404 Acute Dermal	Rabbit	-	4 hrs	14 d



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	Irritation/Corrosion				
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Conclusion/Summary

- Skin** : The product itself has not been tested. The classification is based on the available information for the individual ingredients.
- Eyes** : The product itself has not been tested. The classification is based on the available information for the individual ingredients.
- Respiratory** : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate	Skin	Guinea pig	Sensitising
	Skin	Human	Sensitising
	Respiratory	In vitro	Not sensitizing GARDair
CMI / MI	Skin	Guinea pig	Sensitising 406 Skin Sensitization

Conclusion/Summary

- Skin** : The product itself has not been tested. The classification is based on the available information for the individual ingredients.
- Respiratory** : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate	476 In vitro Mammalian Cell Gene Mutation Test	Subject: Mammalian-Animal Metabolic activation: +/- Experiment: In vitro	Negative
	471 Bacterial Reverse Mutation Test	Subject: Bacteria Metabolic activation: +/- Experiment: In vitro	Negative
	476 In vitro Mammalian Cell Gene Mutation Test	Subject: Mammalian-Animal Metabolic activation: +/- Experiment: In vitro	Negative
	474 Mammalian Erythrocyte Micronucleus Test	Subject: Mouse Experiment: In vivo	Negative
CMI / MI	EPA OPP 84-2	Subject: Bacteria Metabolic activation: +/- Experiment: In vitro	Positive
	476 In vitro Mammalian Cell Gene Mutation Test	Subject: Mammalian-Animal Metabolic activation: +/- Experiment: In vitro	Positive
	475 Mammalian Bone Marrow Chromosomal Aberration Test	Subject: Mammalian-Animal Cell: Bone marrow Metabolic activation: +/- Experiment: In vivo	Negative



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	475 Mammalian Bone Marrow Chromosomal Aberration Test	Subject: Insect Cell: Germ Metabolic activation: +/- Experiment: In vivo	Negative
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Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Carcinogenicity

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Reproductive toxicity

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Teratogenicity

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

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 : Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

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.

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Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate			
	Chronic NOEC 320 mg/l Fresh water 209 Activated Sludge, Respiration Inhibition Test	Activated sludge	3 h
	Acute EC50 > 1.000 mg/l Fresh water 209 Activated Sludge, Respiration Inhibition Test	Activated sludge	3 h
	Chronic NOEC 143 mg/l Fresh water 211 Daphnia Magna Reproduction Test	Daphnia	21 d
CMI / MI			
	Acute EC50 0,16 mg/l 203 Fish, Acute Toxicity Test	Fish	96 h
	Acute EC50 0,16 mg/l 202 Daphnia sp. Acute Immobilisation Test and Reproduction Test	Daphnia	48 h
	Acute EC50 0,0052 mg/l 201 Alga, Growth Inhibition Test	Algae	96 h
	Chronic NOEC 0,0012 mg/l 201 Alga, Growth Inhibition Test	Algae	72 h
	Chronic NOEC 0,098 mg/l 210 Fish, Early-Life Stage Toxicity Test	Fish	28 d
	Chronic NOEC 0,00064 mg/l	Daphnia	48 d
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	Acute LC50 > 100 mg/l	Fish	96 h

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	calculated.		
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Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
sodium p-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]benzenesulphonate	301F Ready Biodegradability - Manometric Respirometry Test	55,1 % - 28 d	-	-
Granofin Easy F-90 liq	BOD (% of COD).	0 % - 5 d	-	-

BOD = Biochemical Oxygen Demand : 0 mg/l

COD = Chemical Oxygen Demand : 200.448 mg/l

Conclusion/Summary : Not biodegradable

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
CMI / MI	-	<= 54	low

12.4 Mobility in soil

Soil/water partition coefficient (KOC) : 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

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



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- Hazardous waste** : requirements of all authorities with jurisdiction.
: The classification of the product may meet the criteria for a hazardous waste.

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	ADN	IMDG	IATA
14.1 UN number	-	-	-	-
14.2 UN proper shipping name	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5. Environmental hazards	No.	No.	No.	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.



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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.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Persistent Organic Pollutants

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

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Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Japan	:	Not determined.
United States	:	United States inventory (TSCA 8b): All components are active or exempted.

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

SECTION 16: Other information



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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 N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Notice to reader

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



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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.

Annex to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture

Product definition	:	Mixture
Code	:	P52800
Product name	:	Granofin Easy F-90 liq