

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

#### **SDS # :** 35601

# **GRAISSE N 3924**

#### Date of the previous version: 2012-02-27

Revision Date: 2013-06-21

Version 1.01

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name	GRAISSE N 3924
Number	085
Pure substance/mixture	Mixture

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

#### Identified uses Lubricating grease.

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

Supplier	TOTAL LUBRIFIANTS
	562 Avenue du Parc de L'ile
	92029 Nanterre Cedex
	Tél: +33 (0)1 41 35 40 00
	Fax: +33 (0)1 41 35 84 71

#### For further information, please contact:

Contact Point	HSE
E-mail Address	rm.msds-lubs@total.com

### 1.4. Emergency telephone number

#### +33 1 49 00 00 49 (24h/24, 7d/7)

France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59

In France : - PARIS : Hốpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10, Tel : 01.40.05.48.48. -MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel (15)

# 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

### REGULATION (EC) No 1272/2008

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

#### DIRECTIVE 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16



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The substance/mixture is non-dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments **Symbol(s)** Not classified

#### 2.2. Label elements

Labelled according to

Not classified/No labelling required

#### R-phrase(s) none

S-phrase(s) none Safety data sheet available on request.

2.3. Other hazards

Physical-Chemical Properties	Contaminated surfaces will be extremely slippery.
	Containinated Sanaboo will be extremely supporty.

**Environmental properties** 

Should not be released into the environment.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixture

#### **Chemical nature** The product is made from refined mineral base oils and synthetic oils .

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
Phosphorodithioic acid, mixed	270-608-0	01-2119493628-22	68457-79-4	< 1.5	Xi;R38-41	Aquatic Chronic 2 (H411)
O,O-bis(iso-Bu and pentyl)					N;R51-53	Eye Dam. 1 (H318)
esters, zinc salts						Skin Irrit. 2 (H315)

#### Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

For the full text of the R-phrases mentioned in this Section, see Section 16 For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

# 4.1. Description of first-aid measures



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General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.
Inhalation	Move to fresh air.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
4.2. Most important	symptoms and effects, both acute and delayed
Eye contact	Not classified.
Skin contact	Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
4.3. Indication of in	nmediate medical attention and special treatment needed, if necessary
Notes to physician	Tract aumatomatically

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Notes to physician
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Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

# 5.2. Special hazards arising from the substance or mixture

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

# 5.3. Advice for fire-fighters

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Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Other information	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
6. ACCIDENTAL RELEASE N	/IEASURES
6.1. Personal precautions,	protective equipment and emergency procedures
General Information	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
6.2. Environmental precau	itions_
General Information	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
6.3. Methods and material	s for containment and cleaning up
Methods for cleaning up	Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Collect free product with suitable mechanical means. Keep in suitable, closed containers for disposal.
6.4. Reference to other se	ctions_
Personal Protective Equipment	See Section 8 for more detail.
Waste treatment	See section 13.
7. HANDLING AND STORAG	βE
7.1. Precautions for safe h	handling
Advice on safe handling	When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.



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Hygiene measures	Ensure the application of strict rules of hygiene by the personnel exposed contact with the product. Regular cleaning of equipment, work area and cle recommended. Wash hands before breaks and immediately after handling not use abrasives, solvents or fuels. Do not dry hands with rags that have contaminated with product. Do not put product contaminated rags into wor	othing is the product. Do been
7.2. Conditions for safe st	prage, including any incompatibilities	
Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bunded ar container tightly closed. Keep preferably in the original container. Otherwis indication of the regulation label on the new container. Do not remove the the containers (even if they are empty). Design the installations in order to emissions of product (due to seal breakage, for example) onto hot casings contacts. Protect from frost, heat and sunlight. Protect from moisture.	e reproduce all hazard labels of avoid accidental
Materials to Avoid	Strong oxidizing agents.	
7.3. Specific end uses		
8. EXPOSURE CONTROLS/P	ERSONAL PROTECTION	

# 8.1. Control parameters

Exposure limits	oil mist : 10mg/m <sup>3</sup> , for 15 minutes
	oil mist : 5mg/m <sup>3</sup> , for 8 hours

Legend

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## See section 16

# DNEL Worker (Industrial/Professional)

Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
		11.87 mg/kg bw/day Dermal 8.13 mg/m³ Inhalation	
Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
effects		effects	-
		5.93 mg/kg bw/day Dermal 2.06 mg/m³ Inhalation 0.24 mg/kg bw/day Oral	
	effects Short term, systemic	effects Short term, systemic Short term, local effects	effects     effects       11.87 mg/kg bw/day Dermal 8.13 mg/m³ Inhalation       Short term, systemic effects       Short term, local effects       Long term, systemic effects       5.93 mg/kg bw/day Dermal 2.06 mg/m³ Inhalation

Predicted No Effect Concentration (PNEC)



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Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Phosphorodithioic	0.000004 mg/l fw				100 mg/l	10.67 mg/kg food
acid, mixed	0.0000046 mg/l					
O,O-bis(iso-Bu and	mw					
pentyl) esters, zinc	0.000046 mg/l or					
salts	_					
68457-79-4						

8.2. Exposure controls

# **Occupational Exposure Controls**

Engineering Measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Personal Protective Equipment	
General Information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.
Respiratory protection	None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.
Eye Protection	If splashes are likely to occur, wear:. Safety glasses with side-shields.
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.
Hand Protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

#### **Environmental exposure controls**

**General Information** 

on The product should not be allowed to enter drains, water courses or the soil.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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# 9.1. Information on basic physical and chemical properties

Color Physical State @20°C Odor

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beige solid Characteristic



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Property	Values	Remarks	Method
рН		Not applicable	
Boiling point/boiling range		Not applicable	
Flash point	> 200 °C		
	> 392 °F		
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Density	~ 900 kg/m <sup>3</sup>	@ 20 °C	
Water solubility	· ·	Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature	> 250 °C		ASTM E659
<b>C</b> 1	> 482 °F		ASTM E659
Viscosity, kinematic		No information available	
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	Not applicable		

## 9.2. Other information

# 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

# 10.2. Chemical stability

Stability

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Stable under recommended storage conditions.

# 10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing.

10.4. Conditions to Avoid

**Conditions to Avoid** Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

# 10.5. Incompatible Materials

Materials to Avoid Strong oxidizing agents.

# 10.6. Hazardous Decomposition Products



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Hazardous Decomposition Products None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

# 11. TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

# Acute toxicity Local effects Product Information

Skin contact	. Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Eye contact	. Not classified.
Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

# Acute toxicity - Component Information

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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	LD50 3600 mg/kg (Rat - OECD 401)	LD50 > 20000 mg/kg (Rabbit - OECD 402)	
Sensitization		-	
Sensitization	Not classified as a sensitizer.		
Specific effects			
Carcinogenicity Mutagenicity Reproductive toxicity Repeated Dose Toxicity	This product is not classified carcinogenic. This product is not classified as mutagenic. This product does not present any known or suspected reproductive hazards.		
Subchronic toxicity	No information available.		
Target Organ Effects (STOT)			
Target Organ Effects (STOT)	No information available.		
Other information			
Other adverse effects	Characteristic skin lesions (pin exposures (contact with contar	nples) may develop following pro ninated clothing).	blonged and repeated



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# 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

## Acute aquatic toxicity - Product Information

No information available.

#### Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates		microorganisms
Phosphorodithioic acid,	EbL50 (72h) 21 mg/l	EC50 (48h) 23 mg/l	LC50 (96h) 4.5 mg/l	
mixed O,O-bis(iso-Bu and	(Scenedesmus subspicatus -	(Daphnia magna - OECD	(Cyprinodon variegatus -	
pentyl) esters, zinc salts 68457-79-4	OECD 201)	202)	OECD 203)	

# Chronic aquatic toxicity • Product Information

No information available.

### Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4		NOEC(21d) 0.8 mg/l Daphnia magna		

#### Effects on terrestrial organisms

No information available.

# 12.2. Persistence and degradability

#### General Information

No information available.

# 12.3. Bioaccumulative potential

**Product Information** 

No information available.

#### logPow

No information available

Component Information

Chemical Name	log Pow
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc	0.69
salts - 68457-79-4	

12.4. Mobility in soil



<b>SDS #</b> : 35601	GRAISSE N 3924			
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Soil	Given its physical and chemical characteristics, the product has no soil mobility.			
Air	Loss by evaporation is limited.			
Water	The product is insoluble and floats on water.			
12.5. Results of PBT and	d vPvB assessment			
PBT and vPvB assessment	No information available.			
12.6. Other adverse effe	octs			
General Information	No information available.			
13. DISPOSAL CONSIDER	ATIONS			
13.1. Waste treatment n	nethods			
Waste from Residues / Unused Products	Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.			
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.			
EWC Waste Disposal No.	The following Waste Codes are only suggestions:. 12 01 12. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.			
14. TRANSPORT INFORMATION				
	Not required			
ADR/RID	Not regulated			
IMDG/IMO	Not regulated			
ICAO/IATA	Not regulated			
ADN	Not regulated			

# 15. REGULATORY INFORMATION

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# <u>15.1.</u> Safety, health and environmental regulations/legislation specific for the substance or <u>mixture</u>



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European Union

International Inventories

**EINECS/ELINCS** TSCA DSL ENCS IECSC KECL PICCS AICS NZIoC Legend EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

Further information

### 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** 

## 16. OTHER INFORMATION

#### Full text of R-phrases referred to under sections 2 and 3

R41 - Risk of serious damage to eyes

R38 - Irritating to skin

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

No information available

#### Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H318 - Causes serious eye damage

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H411 - Toxic to aquatic life with long lasting effects

#### Abbreviations, acronyms

Legend Section 8

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+	Sensitizer	*	Skin designation	
**	Hazard Designation	C:	Carcinogen	
M:	Mutagen	R:	Toxic to reproduction	

Revision Date: Revision Note

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2013-06-21 \*\*\* Indicates updated section.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet