

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 080241

BIOADHESIVE PLUS

Date of the previous version: not applicable

Revision Date: 2011-05-11

Version 1

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

1.1. Product identifier

Product name	
Number	
Pure substance/mixture	

BIOADHESIVE PLUS 0B2 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 Tél: 01.45.42.59.59

In France : - PARIS : Hôpital 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 Hédouard Herriot, 5 place d'Arsonvil, 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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Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC Symbol(s) Not Classified

2.2. Label elements

Labelled according to:

Not classified/No labelling required

R-phrase(s) none

S-phrase(s) none

2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Chemical natureThe product is made from synthetic base oils (esters) .Hazardous ingredientsDo not contain hazardous substance nor substance with european workplace exposurelimits in concentration above regulatory thresholds

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

General advice

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.



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Eye contact	Rinse immediately with plenty of water and seek medical advice.
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent In this case, the casualty should be sent immediately to hospital.
Inhalation	Move to fresh air
Ingestion	If swallowed, do not induce vomiting - seek medical advice.
4.2. Most important sympt	coms and effects, both acute and delayed
Eye contact	Not classified.
Skin 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.
4.3. Indication of immedia	te medical attention and special treatment needed, if necessary
Notes to physician	Treat symptomatically
5. FIRE-FIGHTING MEASU	RES
5.1. Extinguishing media	
Suitable Extinguishing Media	Foam. Carbon dioxide (CO ₂). ABC powder.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
5.2. Special hazards arisir	ng 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	5



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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	MEASURES
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.
6.2. Environmental precaut	ions
General Information	Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
6.3. Methods and materials	for containment and cleaning up
Methods for cleaning up	Take up mechanically and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.
6.4. Reference to other sec	ctions
Personal Protective Equipment	See Section 8 for more detail
Waste treatment	See section 13
7. HANDLING AND STORAG	GE
7.1. Precautions for safe ha	andling
Advice on safe handling	When using, do not eat, drink or smoke. Wear suitable protective clothing. For personal protection see section 8. Remove all sources of ignition.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and at the end of workday. Do not use abrasives, solvents or fuels. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

7.2. Conditions for safe storage, including any incompatibilities



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Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation laber on the new container. Do not remove the hazard labels of the containers (even if they are empty). Protect from frost, heat and sunlight. Protect from moisture.
Materials to Avoid	Strong oxidizing agents.
7.3. Specific end uses	
8. EXPOSURE CONTROLS/F	PERSONAL PROTECTION
8.1. Control parameters	
Exposure limits	Contains no substances with occupational exposure limit values
Legend	See section 16
8.2. Exposure controls	
Occupational Exposure Controls	
Engineering Measures	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	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. 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.



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Environmental exposure controls

General Information

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Color Physical State @20°C Odor		smooth brown solid Characteristic	
<u>Property</u> pH Boiling point/boiling range	Values	<u>Remarks</u> Not applicable Not applicable	<u>Method</u>
Flash point		No information available	
Evaporation rate		No information available	
Flammability Limits in Air Vapor Pressure @20°C (kPa) Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature Viscosity, kinematic	850 kg/m ³	No information available No information available No information available @ 15 °C Insoluble Soluble in many common organic solvents No information available Not applicable Not applicable	
Explosive properties Oxidizing Properties Possibility of hazardous reactions	Not explosive Not applicable Not applicable		
9.2. Other information			
Penetration index Drop point	310 - 340 (1/10mm) 130 °C		ISO 2137 IP-396



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10. STABILITY AND REACTI	VITY	
10.1. Reactivity		
10.2. Chemical stability		
Stability	Stable under recommended storage conditions.	
10.3. Possibility of hazardou	is 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	5	
Materials to Avoid	Strong oxidizing agents.	
10.6. Hazardous Decomposi	tion Products	
Hazardous Decomposition Products	s Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.	
11. TOXICOLOGICAL INFOR	MATION	
11.1. Information on toxicol	ogical effects	
Acute toxicity Local effects, Product Information		
Skin contact	Not classified.	
Eye contact	Not classified.	

InhalationNot classified. Inhalation of vapors in high concentration may cause irritation of respiratory
system.IngestionNot classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

Acute toxicity Component Information

diarrhea.



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Sensitization	
Sensitization	Not classified as a sensitizer.
Specific effects	
Carcinogenicity	This product is not classified carcinogenic.
Mutagenicity	This product is not classified as mutagenic.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.
Repeated Dose Toxicity	
Subchronic toxicity	No information available.
Target Organ Effects (STOT)	
Target Organ Effects (STOT)	No information available.
Other information	
Other adverse effects	Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute aquatic toxicity Product Information No information available.

Acute aquatic toxicity Component Information No information available.

Chronic aquatic toxicity Product Information No information available.

Chronic aquatic toxicity Component Information No information available.



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Effects on terrestrial organisms No information available.

12.2. Persistence and degradability

General Information Readily biodegradable (>60 % after 28 days). OECD 301 B.

12.3. Bioaccumulative potential

Product Information	No information available
logPow Component Information	No information available

12.4. Mobility in soil

Soil Given its physical and chemical characteristics, the product has no soil mobility.

Water The product is insoluble and floats on water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with the European Directives on waste and hazardous waste. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal



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EWC Waste Disposal No.	The following Waste Codes are only suggestions: 12 01 12. Accordi Waste Catalogue, Waste Codes are not product specific, but applicati codes should be assigned by the user based on the application for wh used.	on specific. Waste
14. TRANSPORT INFORM	MATION	
ADR/RID	Not regulated	
IMDG/IMO	Not regulated	
ICAO/IATA	Not regulated	
ADN	Not regulated	
15. REGULATORY INFO	RMATION	
15.1 Safety health and	environmental regulations/legislation specific for the su	ubstance or

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

European Union

International Inventories

EINECS/ELINCS	Complies			
TSCA	Complies			
DSL	Complies			
ENCS	Complies			
IECSC	Complies			
KECL	-			
PICCS	Complies			
AICS	-			
NZIOC	Complies			
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



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AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals

Further information

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3 No information available

Abbreviations, acronyms

Legend Section 8			
+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

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 Revision Note
 *** 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