

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name. : PLASTO-JOINT STIK®

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Professional use, Industrial use
Use of the substance/mixture : Sealant.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.
Parc Industriel de la Plaine de
l'Ain - Allée des Combes.
01150.BLYES.France.
Phone: +33 (0)4 74 46 23 23
Fax: +33 (0)4 74 46 23 29
E-mail: info@eu.laco.com
Web: http://www.markal.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 220115 Minsk	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Gifftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73

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LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xi; R36/38

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

:



GHS07

Signal word (CLP)

: Warning

Hazardous ingredients

: Polyisobutylene

Hazard statements (CLP)

: H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary statements (CLP)

: P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves/eye protection
P302+P352 - IF ON SKIN: Wash with plenty of water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 - Specific treatment (see Section 4 on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixture

Components with health hazards above the applicable thresholds or with Exposure Limits are shown. Specific concentrations withheld as trade secret.

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
limestone	(CAS No) 1317-65-3 (EC no) 215-279-6	40 – 50	Not classified	Not classified
Polyisobutylene	(CAS No) 9003-27-4 or 9003-29-6 (EC no) 204-066-3	35 – 45	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Paraffin waxes and Hydrocarbon waxes	(CAS No) 8002-74-2 (EC no) 232-315-6	5 – 10	Not classified	Not classified
Titanium dioxide	(CAS No) 13463-67-7 (EC no) 236-675-5	1 – 10	Not classified	Not classified
Silica gel	(CAS No) 112926-00-8 (EC no) *601-214-2	0 – 1	Not classified	Not classified
Aluminum hydroxide	(CAS No) 21645-51-2 (EC no) 244-492-7	0 – 1	Not classified	Not classified
Aluminum oxide	(CAS No) 1344-28-1 (EC no) 215-691-6	0 – 1	Not classified	Not classified

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation

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

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry powder. Carbon dioxide. Foam.
- 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

- Fire hazard : No particular fire or explosion hazard.
- Hazardous decomposition products in case of fire : Burning produces irritating, toxic and noxious fumes. Carbon dioxide. Carbon monoxide. Formaldehyde.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN 469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves resistant to chemical penetration. Chemical goggles or safety glasses.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves. Chemical goggles or safety glasses.
- Emergency procedures : Ventilate area.

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6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid.

Methods for cleaning up : On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place.

Incompatible products : Strong oxidizing agents.

Incompatible materials : Heat sources. Direct sunlight.

7.3. Specific end use(s)

Sealant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Titanium dioxide (13463-67-7)		
Austria	Local name	Titanium dioxide
Austria	MAK (mg/m³)	5 mg/m³ (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m³)	10 mg/m³ max. 2x60 min./Schicht (alveolengängiger Anteil)
Belgium	Local name	Titane (dioxyde de)
Belgium	Limit value (mg/m³)	10 mg/m³
Belgium	Remark*	(dioxyde de)
Bulgaria	Local name	Титанов диоксид, респирабилен прах
Bulgaria	OEL TWA (mg/m³)	10 mg/m³
France	Local name	Titane (dioxyde de), en Ti
France	VME (mg/m³)	10 mg/m³
France	Note (FR)	inhalable aerosol
Greece	OEL TWA (mg/m³)	10 mg/m³
Italy - Portugal - USA ACGIH	Local name	Titanium dioxide
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
Latvia	Local name	Titānadioksīds
Latvia	OEL TWA (mg/m³)	10 mg/m³
Spain	VLA-ED (mg/m³)	10 mg/m³
Spain	Notes	inhalable aerosol
Switzerland	Local name	Dioxyde de titane
Switzerland	VME (mg/m³)	3 mg/m³
Switzerland	Remark (CH)	(respirable aerosol)
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ inhalable aerosol 4 mg/m³ respirable aerosol
Denmark	Local name	Titandioxid, beregnet som Ti
Denmark	Grænseværdie (langvarig) (mg/m³)	6 mg/m³
Denmark	Grænseværdie (kortvarig) (mg/m³)	12 mg/m³
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust
Lithuania	Local name	Titano dioksidas
Lithuania	IPRV (mg/m³)	5 mg/m³
Norway	Local name	Titandioksid
Norway	Gjennomsnittsverdier (AN) (mg/m³)	5 mg/m³
Slovakia	NPHV (priemerná) (mg/m³)	5 mg/m³

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Titanium dioxide (13463-67-7)		
Sweden	Local name	Titanium dioxide total dust
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³
Sweden	Anmärkning (SE)	total dust, 1
Portugal	Local name	Dióxido de titânio
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Croatia	Local name	Titanov dioksid
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust
Aluminum oxide (1344-28-1)		
Austria	MAK (mg/m ³)	10 mg/m ³ (gemessen als einatembarer Aerosolanteil) 5 mg/m ³ (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m ³)	20 mg/m ³ (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m ³ (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark*	(oxyde d') (en Al)
France	Local name	Aluminium (trioxyde de di-)
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	(respirable aerosol)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	3 mg/m ³
Germany	Remark (TRGS 900)	(gemessen als alveolengängiger Staubanteil)
Spain	Local name	Óxido de aluminio
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Switzerland	Local name	Aluminium, fumée d'oxyde
Switzerland	VLE (mg/m ³)	24 mg/m ³
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	4x15
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable aerosol) 4 mg/m ³ (respirable aerosol)
Denmark	Local name	Aluminiumoxid, beregnet som Al, total (2005)
Denmark	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³
Denmark	Grænseværdie (kortvarig) (mg/m ³)	10 mg/m ³ (total) 4 mg/m ³ (respirabel)
Hungary	Local name	DIALUMÍNIUM-TRIOXID (Al-ra számítva)
Hungary	AK-érték	6 mg/m ³
Hungary	Megjegyzések (HU)	(respirable aerosol)
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
Lithuania	IPRV (mg/m ³)	2 mg/m ³
Lithuania	Remark (LT)	(alveolinė frakcija. Piūrėk IX skyriaus 3 pastabà.)
Norway	Local name	Aluminiummoksid
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	10 mg/m ³
Norway	Merknader (NO)	1)
Poland	NDS (mg/m ³)	2.5 mg/m ³ (dymy, pyl całkowity) 1.2 mg/m ³ (dymy, pyl respirabilny)
Romania	Local name	Oxid de aluminiu (aerosoli)
Romania	OEL TWA (mg/m ³)	2 mg/m ³
Romania	OEL TWA (ppm)	0.5 ppm
Romania	OEL STEL (mg/m ³)	5 mg/m ³
Romania	OEL STEL (ppm)	1.2 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia)
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable aerosol)
Portugal	Local name	Óxido de alumínio
Portugal	OEL TWA (mg/m ³)	10 mg/m ³

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Titanium dioxide (13463-67-7)		
Croatia	Local name	Aluminijev oksid
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³ inhalable dust 4 mg/m³ respirable dust
Aluminum hydroxide (21645-51-2)		
Austria	MAK (mg/m³)	5 mg/m³
Austria	MAK (ppm)	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m³)	10 mg/m³
Austria	MAK Short time value (ppm)	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
Latvia	Local name	Alumīniahidroksīds
Latvia	OEL TWA (mg/m³)	6 mg/m³
Switzerland	VME (mg/m³)	3 mg/m³
Switzerland	Remark (CH)	(alveolengängige Fraktion)
Lithuania	Local name	Aliuminio hidroksidas
Lithuania	IPRV (mg/m³)	6 mg/m³
Lithuania	Remark (LT)	F
Poland	NDS (mg/m³)	2.5 mg/m³ dymy, pyl całkowity 1.2 mg/m³ dymy, pyl respirabilny
Slovakia	NPHV (priemerná) (mg/m³)	1.5 mg/m³ (respirabilná frakcia) 4 mg/m³ (inhalovateľná frakcia)
Silica gel (112926-00-8)		
Belgium	Local name	Silices amorphes : précipités (gel de silice)
Belgium	Limit value (mg/m³)	10 mg/m³
Finland	Local name	Piidioksidi, saostettu
Finland	HTP-arvo (8h) (mg/m³)	5 mg/m³
limestone (1317-65-3)		
Belgium	Local name	Calcium (carbonate de)
Belgium	Limit value (mg/m³)	10 mg/m³
Belgium	Remark*	(carbonate de)
Bulgaria	Local name	Калциев карбонат
Bulgaria	OEL TWA (mg/m³)	10 mg/m³
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
Spain	VLA-ED (mg/m³)	10 mg/m³
Spain	Notes	inhalable aerosol
Switzerland	Local name	Carbonate de calcium
Switzerland	VME (mg/m³)	3 mg/m³
Switzerland	Remark (CH)	(respirable aerosol)
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ (total dust) 4 mg/m³ (respirable dust)
Hungary	Local name	KALCIUM-KARBONÁT
Hungary	AK-érték	10 mg/m³
Hungary	Megjegyzések (HU)	inhalable aerosol
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust
Croatia	Local name	Limeston (sedimentna stijena)
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³ inhalable dust 4 mg/m³ respirable dust
Paraffin waxes and Hydrocarbon waxes (8002-74-2)		
Austria	Local name	Paraffin wax (fume)
Belgium	Local name	Paraffine (cire de) (fumées)
Belgium	Limit value (mg/m³)	2 mg/m³
Belgium	Remark*	(cire de) (fumées)
France	Local name	Paraffine (cire de), fumée
France	VME (mg/m³)	2 mg/m³
Greece	OEL TWA (mg/m³)	2 mg/m³

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Titanium dioxide (13463-67-7)		
Greece	OEL STEL (mg/m ³)	6 mg/m ³
Italy - Portugal - USA ACGIH	Local name	Paraffin wax fume
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
Italy - Portugal - USA ACGIH	Remark (ACGIH)	URT irr; nausea
Spain	VLA-ED (mg/m ³)	2 mg/m ³
Switzerland	Local name	Paraffine, fumée
Switzerland	VME (mg/m ³)	2 mg/m ³
Switzerland	Remark (CH)	(alveolengängiger Staub)
United Kingdom	Local name	Paraffin wax, fume
United Kingdom	WEL TWA (mg/m ³)	2 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	6 mg/m ³
United Kingdom	Remark (WEL)	(fume)
Denmark	Local name	Paraffinrøg
Denmark	Grænseværdie (langvarig) (mg/m ³)	2 mg/m ³
Finland	Local name	Parafiinihuurut
Finland	HTP-arvo (8h) (mg/m ³)	1 mg/m ³
Ireland	Local name	Paraffin wax, fume
Ireland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	6 mg/m ³
Norway	Local name	Parafin (røyk)
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	2 mg/m ³
Poland	Local name	Parafina stała dymy
Poland	NDS (mg/m ³)	2 mg/m ³
Poland	Remark (PL)	dymy
Romania	Local name	Parafina (fumuri)
Romania	OEL TWA (mg/m ³)	2 mg/m ³
Romania	OEL STEL (mg/m ³)	6 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	2 mg/m ³
Portugal	Local name	Parafina (cera), fumos
Portugal	OEL TWA (mg/m ³)	2 mg/m ³
Croatia	Local name	Parafinski vosak, dim
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	2 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	6 mg/m ³

8.2. Exposure controls

Appropriate engineering controls	: Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear dust impervious gloves. EN 374.
Eye protection	: In case of dust production: protective goggles. EN 166
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator equipped with particulate filtering cartridges. EN 12083.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: waxy.
Colour	: Off-white.
Odour	: Odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available

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Boiling point	: No data available
Flash point	: 185 °C (melted product)
Self ignition temperature	: No data available
Decomposition temperature	: > 138 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: insoluble in water.
Log Pow	: > 1
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 0 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat. Open flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes. Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 6.82 mg/l/4h
Aluminum oxide (1344-28-1)	
LD50 oral rat	> 15900 mg/kg
LC50 inhalation rat (mg/l)	7.6 mg/l/4h
ATE (vapours)	7.600 mg/l/4h
ATE (dust,mist)	7.600 mg/l/4h
limestone (1317-65-3)	
LD50 oral rat	6450 mg/kg
ATE (oral)	6450.000 mg/kg bodyweight
Paraffin waxes and Hydrocarbon waxes (8002-74-2)	
LD50 oral rat	> 5000 mg/kg No mortality observed
LD50 dermal rat	> 2000 mg/kg No mortality observed

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Titanium dioxide (13463-67-7)	
NOAEL (chronic,oral, animal/male,2 years)	5 mg/kg bodyweight rat

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Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Aluminum oxide (1344-28-1)	
EC50 Daphnia 1	> 1470 mg/l
NOEC (acute)	> 50 mg/l
limestone (1317-65-3)	
LC50 fishes 1	> 200 mg/l
Paraffin waxes and Hydrocarbon waxes (8002-74-2)	
LC50 fishes 1	> 1000 mg/l

12.2. Persistence and degradability

limestone (1317-65-3)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

PLASTO-JOINT STIK®	
Log Pow	> 1
limestone (1317-65-3)	
Bioaccumulative potential	Does not biaccumulate significantly.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
EURLW code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
H code	: H4 - 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not considered a dangerous good for transport regulations

14.2. UN proper shipping name

Proper Shipping Name (ADR) :

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

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14.6.2. Transport by sea

No additional information available

14.6.3. Inland waterway transport

Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

PLASTO-JOINT STIK® is not on the REACH Candidate List

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

VOC content : 0 %

15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - strongly hazardous to water

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

GHS classification information. Revised format. Revised sections: 1 - 16.

Data sources : ACGIH 2000.

Canadian Centre for Occupational Health and Safety. Accessed at:
http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html.

ESIS (European chemical Substances Information System; accessed at:
<http://esis.jrc.ec.europa.eu/index.php?PGM=cla>.

European Chemicals Agency (ECHA) Registered Substances list. Accessed at
<http://echa.europa.eu/>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.

OSHA 29CFR 1910.1200 Hazard Communication Standard.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

TSCA Chemical Substance Inventory. Accessed at
<http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists).

ATE: Acute Toxicity Estimate.

CAS (Chemical Abstracts Service) number.

CLP: Classification, Labelling, Packaging.

EC50: Environmental Concentration associated with a response by 50% of the test population.

GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

LD50: Lethal Dose for 50% of the test population.

OSHA: Occupational Safety & Health Administration.

PBT: Persistent, Bioaccumulative, Toxic.

PNEC: Predicted No Effect Level.

STEL: Short Term Exposure Limits.

TSCA: Toxic Substances Control Act.

TWA: Time Weight Average.

Other information : None.

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Full text of R-, H- and EUH-phrases::	
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
H315	Causes skin irritation
H319	Causes serious eye irritation
R36/38	Irritating to eyes and skin.
Xi	Irritant

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method

SDS Prepared by: The Redstone Group, LLC
6397 Emerald Pkwy.
Suite 200
Dublin, OH USA 43016
T 614-923-7472
www.redstonegrp.com

LA-CO EU CLP SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.