

MATERIAL SAFETY DATA SHEET

This Safety Material Data Sheet is prepared on the base of Regulation 1907/2006/EC of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/WE and repealing Council Regulation 793/93/EEC and Commission Report 1488/94/EC and Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC i 200/21/EC.

1 IDENTIFICATION OF PREPARATION IDENTIFICATION OF MANUFACTURER AND DISTRIBUTOR

Identification of Preparation:

**INTER TROTON MASTER
HARDENER TO PUTTY**

Application:

Professional repairs of car body repairs.

Identification of manufacturer:

Akro NOBEL Polimer Chemicals bv
Stationsplein 4; PO Box 247; NL-3800 AE Amersfoort; Tel. +31-334676767
Emergency telephone number :
+ 31 570679211 (Fax +31 570679801) Akzo Nobel Chemicals-Deventer-NL

Importer/Distributor identification:

C- L Sp. z .o. o.
76-200 Słupsk, ul. Szczecińska 58 B
Tel 059/845 22 83; Fax 059/ 845 34 95
e-mail: cl@c-l.pl
Emergency telephone number: **059/ 8453463 extension 37**

Manufacturer/Distributor:

TROTON Sp. z o. o. tel/fax +48 94 35 126 22
78-120 Gościno tel +48 94 35 123 94
Ząbrowo 14A, Poland e-mail: troton@troton.com.pl

Emergency telephone number (8:00 am – 4:00 pm): +48 94 35 126 22

**Person is responsible for making this Safety Material Data Sheet: Katarzyna Romanska e-mail:
k.romanska@troton.com.pl**

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2 IDENTIFICATION OF THREATS

2.1 Classification and marking of preparation

Preparation has been classified as a dangerous product.

Oxidizing product (O)

Irritating product (Xi)

May cause fire (R7). Irritating to eyes (R36). Contact with skin may cause sensitization (R43)

2.2 Health hazard

Irritating product. Irritating to eyes. Contact with skin may cause sensitization. Dust may

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be irritating to respiratory track and may cause symptoms of bronchitis.

3 CHEMICAL COMPOSITION AND INFORMATION CONCERNING INGREDIENTS

3.1 Dangerous ingredients of the mixture and their classification

Ingredient :	EEC No.	CAS No.	EU No.	Mass %	Symbol	R phrase
Dibenzoyl peroxide	617-008-00-0	94-36-0	202-327-6	50	E, Xi	R2 R36, R43
Dissobutyl phthalate	-	84-69-5	201-553-2	15-35	-	-

4. FIRST AID MEASURES

CAUTION: in case of swallowing immediate medical assistance is required.

4.1 General instructions

Remove contaminated clothes. Wash clothes before the next use.

4.2 Inhalation

Move injured person into fresh air. Provide for resting in reclining position, loosen clothes. If problems with breathing follow apply artificial respiration. If symptoms persist consult the doctor.

4.3 Swallowing

Rinse mouth with plenty of water. Do not cause vomiting (risk of choking). The injured that is vomiting should lie on right side not to inhale vomitus. Immediately call the doctor and show SDS of the product or label on packaging.

4.4 Contact with eyes

Make sure that the injured does not wear contact lens. Take off contact lens. Wash immediately opened eyelids with constant stream of water as long as possible. Avoid water under high pressure that may cause cornea injuries. If irritation increases, seek medical assistance.

4.5 Skin contact

Immediately remove the whole contaminated clothes and boots. Contaminated areas wash with plenty of cold water with soap. Do not use any solvents. Wash clothes before the next use. Seek medical assistance, if irritation increases.

4.6 Instructions for doctor

Symptomatic treatment recommended in case of additional problems.

5. FIRE-FIGHTING MEASURES

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5.1 Special hazards

Contact with flammable materials may result in fire. Product may accelerate and maintain burning. In case of fire product will maintain burning. Decomposition due to heating up.

5.2 Suitable extinguishing media

Water, foam, dry sand, extinguishing powder, carbon dioxide. With big fire water fog/prayed water.

5.3 Forbidden extinguishing media

Halons. Direct, dense water stream.

5.4 Special hazards due to combustion products and gases

Fire result in giving off toxic gases and smoke: carbon dioxide, carbon monoxide, benzene, benzoic acid. Do not inhale smoke if fire and/or explosion takes place. Refer to section 10.

5.5 Fire and explosion hazard

WARNING! Subsequent ignition may follow. Decomposition due to heating up. In case of fire product will maintain burning. Vapours may form with air explosive mixtures. Do not inhale smoke resulted from fire or explosion.

5.6 Other information

Endangered packaging shall be cooled with water stream sprayed at a safe distance. Small fire shall be put out with powder or carbon dioxide, and apply water to prevent subsequent ignition. Water used for putting fire out shall not enter drains or water courses. After fire putting out ventilate contaminated area and saturate with water, and clean walls and metal surfaces.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Do not inhale dust. Protect skin and eyes against pollution. Protect against contact with released product, apply protective gloves and clothes, apply well fitted goggles with side guard or an adequate mask. Follow security instructions -see clauses 7 and 8.

6.2 Environmental precautions

Avoid contact of material with drains, surface water and groundwater. Avoid direct contact with released preparation – follow instructions from Act on wastes. Inform competent bodies if preparation get into drains, drainage system or if plants and food contamination follows.

6.3 Collection, utilisation and environment cleaning up methods

Collect as much as possible into a clean container for subsequent use (if possible) or

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liquidation. Cover residue with an indifferent absorber (e.g. diatomaceous earth- vermiculite) for liquidation. Do not keep wastes in closed container. Hand over wastes to a competent and authorised body for liquidation. (See chapter 13). Clean polluted area and tools with plenty of water.

6.4 Other information

WARNING! Subsequent ignition may follow. Evacuate personnel to protected area.

7. HANDLING AND STORAGE

7.1 Handling

Do not weigh product in storage room. During application of product do not eat, do not drink, do not smoke, and do not take medicines. Do not inhale smoke/mist. Handle at well ventilated areas. In case of packaging change apply polyethylene packaging (provide packaging with label). Avoid closed containers. Do not allow for drying. Avoid shaking and rubbing. During application use sparks-proof tools. Keep away from ignition sources and heat sources (heaters). Protect eyes, skin and clothes against contamination, avoid prolonged and repeated exposure. Protect against direct contact with skin and eyes. Keep away from cobalt and amines accelerators. After handling wash carefully hands with water. Keep working clothes separated and do not take it home.

7.2 Storage

Store according to Industry and Trade Minister Order of 01.03.1995 on Industrial Safety and Hygiene during manufacturing, application, storage and intra-factory transport of organic peroxides (Book of Acts No. 37/1995, item 181). Store separately from other chemical products. Do not store along with food, beverages and animals feed. Do not store together with reduction agents (e.g. amines, amine accelerator), acids (e.g. nitric

acid, hydrochloric acid), bases (e.g. sodium hydroxide, potassium hydroxide) and heavy metal compounds (e.g.: accelerators- cobalt accelerator, alkaline soap, siccatives). Keep in closed, dried and well ventilated room. Store at temperature below 25°C. Do not keep packaging in the open.

Store in tight and original containers, in vertical position to protect against any leakage. Do not store together with flammable or explosive materials. Store away from fire, sparks and heat sources. Protect against direct sunlight.

7.3 Other information

Canister ignition is excluded – T3 temperature group electronic equipment is recommended.

Wash carefully hands after handling or contact with product.

Keep overall separately and do not bring it home. Storage and operation facilities shall be protected against access of third persons, in particular children, pregnant women, the sick and the old.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Additional instructions regarding technical measures

Provide good ventilation in manufacture areas and workstations (mechanical, general ventilation and operation exhausts). Explosion proof ventilation is recommended. Wear appropriate personal protection

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measures. Do not inhale dust from product. Avoid eyes, skin and clothes contamination. Immediately take off contaminated clothes. Refer to chapter 7.

8.2 NDS, NDSCh, NDSP values

<u>Ingredient</u>	<u>CAS No.</u>	<u>Norm</u>	<u>Value</u>	<u>Unit</u>
Dibenzoyl peroxide	94-36-0	NDS	5,0	mg/m ³
		NDSCh	10,0	mg/m ³

Legal basis:

Labour and Social Policy Minister Order of 29 November 2002 on the highest permissible concentrations and volumes of factors harmful for health in labour environment (Book of Acts No. 217 item 1833, 2002 with later amendments).

8.3 Personal protection measures

Permitted biological concentration value (DSB) – not determined.

Health hazard: Perform regular check-ups of employees and harmful factors measurement according to effective regulations.

Precaution measures: Apply only with exhausts systems, eyes wash stand and shower required, store and apply in ventilated room.

Individual protection measures: Wash hands before every break and after work finish. Protect eyes and skin against contact with product. Keep away from food, beverages and feedstuff. During preparation application do not have meals, beverages and do not smoke. After work wash carefully the whole body.

Respiratory tract protection: Apply adequate protective equipment in case of inadequate ventilation e.g. masks with particles filters marked with white colour and P1.

Skin hands protection: Apply adequate protective gloves e.g. from synthetic rubber or neoprene. Dispose of gloves contaminated with product.

Body protection: Apply protective cotton clothes from close-knit fabric. Always wash carefully skin in case of any contact with product.

Collective protection: Provide ventilation in closed spaces. Apply with exhausts systems. Provide medical assistance stands near workstations.

Other information: General industrial safety regulations apply. Wash contaminated clothes before subsequent use or change clothes. After work finish wash the whole body and clean protective measures. Do not drink, do not eat, do not smoke and do not take medicines during working.

Hazards avoidance: Provide water sprayers where dangerous dust concentration may follow.

Biological standards: Protect skin and eyes against direct contact with product, and against inhalation of dust from product; apply preparation at areas with good ventilation; apply personal protective measures; immediately take off contaminated clothes and wash contaminated skin with water with soap; during handling with product do not take meals, do not drink beverages, do not smoke, except of designated areas; wash carefully hands before break and after work finish with preparation; if required apply a hand cream.

Individual protective measures selection, exposure limits and performed by employee operations shall be selected on grounds of "Individual Protection Measures" (CIOP publisher) catalogue according to concentration of substances at operation areas if determined and known. In emergency if concentration of substance at operation areas is unknown apply Individual Protection Measures of the highest recommended protection class. Employer shall provide adequate protective and useful Individual Protection Measures, clothes and boots, and shall provide adequate washing, maintenance, repairs and disinfection.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	putty, smooth, greasy
Colour	white
Fragrance	faint , characteristic
pH (at 20 ⁰ C)	—
Boiling point	do not distil (decomposition follows)
Melting point	- 10 ⁰ C
Flash point	above SADT
Autoignition point	—
Combustibility	decomposition products may be flammable
Explosive properties	no
Oxidizing properties	—
Vapour pressure at 20 ⁰ C	—
Relative density (air = 1)	—
Solubility in	
- water (at 20 ⁰ C)	not soluble
- organic solvents	—
Partition ratio n-octanol/water	—
Absolute viscosity (at 20 ⁰ C)	tixotropic, putty
Density (at 20 ⁰ C)	1140-1170 kg/m ³
Bulk density (at 20 ⁰ C)	—
Activated oxygen content	3,27-3,37 %
Peroxide content	49,5-51,0 %
SADT	50 ⁰ C

10. STABILITY AND REACTIVITY

10.1 Stability

Product is stable in normal storage and operating conditions. Product undergo sudden and exothermal (with heat release) decomposition above SADT under an influence of heating, spark, light, mechanical shock. And some chemical compounds.

SADT (temperature self-accelerating decomposition) it is the lowest temperature at which self-accelerating decomposition of substance may follow in packing applied for transport. A dangerous self-accelerating decomposition reaction and , fire , explosion may be result of thermal decomposition in temperature of 50 ⁰C or higher. Contact with incompatible substances may cause decomposition at temperature equal to or lower than SADT.

10.2 Conditions to avoid

Store in originally closed containers in temperature below 25⁰C. Avoid exposure to high Temperature, direct sunlight, etc. Protect against shock, rubbing.

10.3 Materials to avoid

Protect against contact with corrosion, iron, copper. Contact with blending materials as acids, bases, heave metals and reduction agents result in dangerous decomposition.

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Do not blend with cobalt accelerators. For the purpose of contact with product use only stainless steel 31, PVC, polyethylene or devices covered with glass. Apply only for direct processing with resins.

10.4 Dangerous decomposition products:

Benzene, benzoic acid

10.5 Other information:

Procedures of protection against hazards differ according to conditions. User shall possess emergency procedures adequate to operation conditions. To make up an emergency procedure contact Akzo Nobel.

11. TOXICOLOGICAL INFORMATION

Health hazard: Product is irritating and sensitizing. Irritating to eyes. Contact with skin may cause allergy.

High toxicity

No data available regarding toxicological tests made with a product.

Toxicological data for product ingredients (manufacturer's data):

Dibenzoyl peroxide

LD50 (orally, rat)

> 5000 mg/kg

LC50 (inhalation, rat, 4 hours)

> 24,3 mg/dm³

Diisobutyl phthalate

LD50 (orally, rat)

> 2000 mg/kg

Irritating action: Irritating to eyes and skin. May be irritating during inhalation of vapours and aerosols, and penetration into digestive tract.

Sensitizing action: Sensitizing in contact with skin.

Carcinogenity: Product tested and not carcinogenic for humans (Literature).

Substances comprising product are not on the list of carcinogenic and likely carcinogenic to humans substances (according to Health and Social Policy Minister –Book of Acts from 1996, No.121, item 571; with amendment Book of Acts from 2003, No. 36, item 2334).

Mutagenic action: No data attesting to mutagenicity. Product not mutagenic (Ames test).

Exposure symptoms: irritating to eyes and sensitizing to skin.

Skin contact: Causes skin irritation, allergic action.

Eyes contact: Causes eyes irritation, may cause cornea and the eyelid injures .

Odours and aerosols inhalation: May be irritating due to inhalation, may cause mucous membrane and upper respiratory track irritation.

Swallowing: Irritating to mucous membrane oral cavity.

Exposure results:

Skin contact: Causes redness and irritation. Blisters and ulcers may follow.

Eyes contact: Causes acute redness and irritation. Chemical burn of cornea and the eyelid may follow at once or after a week. Permanent eyes injury may follow (eyeball perforation, blindness).

Odours and aerosols inhalation: choking with odours, larynx and trachea irritation.

Swallowing: Irritating to upper respiratory track.

Toxicological action due to prolonged or repeated exposure: Product irritating to eyes and may cause cornea inflammation. Harmful effects if absorbed through skin, allergic reactions follow. See chapter 7 and 8.

Poisoning prevention: Employees handling product shall undergo a special training regarding application of the product (including: providing label for not marked containers in case of pouring from one container to another),

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methods and rules of evacuation, and personal protection measures application as protective goggles, masks with filters P1, protective overalls, showers, wash stands for eyes rinsing, hydrants, emergency exits and

first aid equipment. All technical equipment shall be under constant monitoring to avoid emergency.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available regarding ecotoxicity tests. Product has not been classified as environmentally dangerous product. Protect against discharge to environment. Protect product against entering into drains and soil.

The following data may be applied for below listed ingredients (manufacturer data)

Dibenzoyl peroxide

Fish (Poecilia reticulata; 96 hours) – LC50

2,0 mg/dm³

Crustacean (Daphnia magna; 48 hours) – EC50

2,91mg/dm³

Bacteria - EC50 test for activated sludge late breathing

35 mg/dm³

Diisobutyl phthalate

Fish (Poecilia reticulata; 96 hours) – LC50

3,0 mg/dm³

Crustacean (Daphnia magna; 24 hours) – EC50

7,4 mg/dm³

Mobility: Product is not soluble in water.

Durability and degradation: Product easily undergoes biodegradation.

Bioaccumulation: No data available

Diisobutyl phthalate: Bio-concentration ratio (BCF): <100

Environmental hazard: Substance not highly harmful for water and land organisms.

Waters hazard level : low

Aqua organisms hazard level: low

13. DISPOSAL CONSIDERATIONS

Legal basis:

Act of 27 April 2001 on Wastes (Book of Acts No. 62, item 628, 2001)

Environment Minister Order of 27 September 2001 on Wastes Catalogue (Book of Acts No.112, item 1206 dated 8.10.2001)

Act of 11 May 2001 on Packaging and Waste Packaging (Book of Acts no.63, item 638, 2001)

Act of 19 December 2002 on Revision of Act on Waste and other Acts (Book of Acts No.7, item 78, 2003)

Act of 29 July 2005 on Revision of Act on Waste and other Acts (Book of Acts dated 2005 No.175, item 1458)

Packaging content, according:

Type 16 09 03*- peroxides (e.g. hydrogen peroxide).

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*dangerous waste

Packaging according:

Type 15.01 02- plastic packaging

Type 15 01 04- metal packaging

Type 15 01 07- glass packaging

Disposal of waste: Handle as waste of 16.09.03 code. Do not discharge into drains. Do not dispose of together with municipal wastes. Protect against entering into groundwater, soil and surface waters –see chapter 6. Store or incinerate at special installations or transit to authorized waste utilization company. Utilization of waste shall subject to consultations with due Environmental Protection Department.

Disposal of used containers: Empty containers may contain residues of product. Follow any warning even if containers are empty. Not treated containers shall be handled as product of 15 01 10 code – packaging containing or polluted with dangerous substances residues. Do not clean containers independently. Hand over empty containers for monitored incineration.

14. TRANSPORT INFORMATION

Land transport ADR/RID

Class	5.2
Classification code	P1
UN No.	3108
Transport name	Type E organic peroxide, solid (<i>Dibenzoyl peroxide</i>)
Label	5.2
Limited quantity:	LQ11 (ADR 2005, clause 3,4,6 – inner packaging 500 g and combined packaging –max. gross 30 kg or inner packaging 500 g on tray covered with thermo-shrinkable or stretchy foil – max gross 20kg) .
Transport class	2 (ADR 2005, clause 1.1.3.6: max total number per transport unit: 333, multiplier 3).
TREM Card or ERG No.	CEFIC TEC ® -52GP1-S

IMDG sea transport

IMDG/GGV/sea class	5.2
UN No.	3108
Transport name	Type E organic peroxide, solid (<i>Dibenzoyl peroxide</i>)

EMS	F-J, S-R
Sea pollutant	No
R label	5.2

ICAO/IATA Air transport

ICAO/IATA Class	5.2
UN/ID No.	3108
Transport name	Type E organic peroxide, solid (<i>Dibenzoyl peroxide</i>)
R label	5.2

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15. REGULATORY INFORMATION

15.1 Packaging

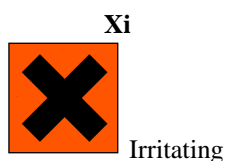
Packaging labelling

Label containing:

Dibenzoyl peroxide

INTER TROTON MASTER HARDENER TO PUTTY

Symbols



Risk phrases:

R7	May cause fire
R36	Irritating to eyes.
R43	Contact with skin may result in sensitization.

Safety phrases:

S2	Protect against children.
S3/7	Store container tight closed in cool place.
S14	Do not store along with reduction agents (amines), acids, bases and heavy metal compounds (e.g. accelerators, siccatives, alkaline soaps)
S26	Wash eyes immediately with large amount of water and consult the doctor.
S36/37/39	Apply appropriate protective clothes, protective gloves and goggles or mask.
S 50	Do not mix with accelerators or reduction agents.

15.2 Other regulations if applicable

Act on chemical substances and preparations of 11 January 2001 (Book of Acts No.11, item

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84; No. 100 item 1085; No.123, item 1350; No. 125, item. 1367 with alteration as of 5 July 2002 (Book of Acts No.142, item 1187).

Health Minister Order of 3 July 2002 on Safety Data Sheet of dangerous substance and preparation (Book of Acts No. 140, item 1171).

Health Minister Order of 14 December 2004 amending order regarding Safety Data Sheet of dangerous substance and preparation (Book of Acts No. 2, item 8).

Health Minister Order of 28 September 2005 on list of dangerous substances along with classification and labelling (Book of Acts No.201, item 1674)

Health Minister Order of 2 September 2003 on labelling of packaging of dangerous substances and preparations (Book of Acts No.173, item 1679 with later amendments)

Health Minister Order of 2 September 2003 on criteria and classification of dangerous substances and preparations (Book of Acts No.171, item 1666 with later amendments)

Act of 27 April 2001 on wastes (Book of Acts No.62, item 628) and Environment Minister Order of 27 September 2001 on Wastes Catalogue (Book of Acts Np.112, item 1209)

Act of 29 July 2005 on Revision of Act on Waste and other Acts (Book of Acts dated 2005 No.175, item 1458)

Labour and Social Policy Minister Order of 29 November 2002 on the highest permissible concentrations and volumes of factors harmful for health in labour environment (Book of Acts

No. 217 item 1833, 2002 with later amendments)

Directive (EU) No. 1907/206 ref. REACH

16. OTHER INFORMATION

Information provided in SDS provide for description of product in respect of safety only.

User bears responsibility for safe application of product and user is solely responsible for any effects resulted from improper use of this product.

R phrases (describing kind of hazard) used in **clause 2 of SDS:**

- R2 Risk of explosion due to impact, friction, contact with fire or other sources of ignition
- R36 Irritating to eyes
- R43 Contact with skin may cause sensitization.