



SAFETY DATA SHEET

According to regulation (EC) No. 1907/2006

Product Brand Name: NOVIPER DH 45

CREATION DATE: 2009.01.07
LAST REVISION: 2012.09.03

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1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY/UNDERTAKING

Product chemical name: NOVIPER DH 45
2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane 45%, in silicone rubber

Intended use: Industrial chemical, cross-linking agent

Manufacturer: NOVICHEM Sp. z o.o.
ul. Główna 4
41-503 CHORZÓW
POLAND
tel./fax. +48-32-245 97 35
novichem@novichem.pl

NFPA Rating: NFPA 432 – Organic Peroxide Classification: Class III
HMIS Classification: Health: 1 Flammability: 2 Reactivity: 2

Emergency telephone: CHEMTREC: (800) 424-9300
Outside USA – (703) 527-3887 collect calls accepted

Emergency Overview: White Paste. Slight odor. Reactive to temperature above 194°F (90°C)
may cause violent decomposition. May cause skin irritation.

2. HAZARDS IDENTIFICATION

2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane 45%, in silicone rubber		
Classification according to (WE) No 1272/2008		
Org. Perox. E	H242	Heating may cause a fire
Skin Corr. 1B	H315	Causes skin irritation
Classification according to 67/548/EWG		
Symbols:	O – oxidizing Xi – irritant	
R-phrases:	R7 – may cause fire R36/38 – irritating to eyes and skin	

Labelling:

GHS02		GHS07	
Signal word: WARNING			
<u>Hazard statement:</u> H242 Heating may cause a fire H315 Causes skin irritation			
<u>Precautionary statements:</u> P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking P234 Keep only in original container.			



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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Immerse in cool water/wrap in wet bandages
P332+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name of the preparation 2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane 45%, paste in silicone rubber

Chemical nature of the preparation Organic peroxide 45% paste, diluted in silicone rubber

Hazardous components **2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane** ca. 45%w/w
CAS-number 78-63-7
EINECS number 201-128-1

WE No 1272/2008	Org. Perox. D, Flam Liq.3; Skin Corr. 1B, H242, H226, H315
67/548/EWG	O; Xi; R7; R36/38

Other components: **silicone rubber** ca. 55%w/w
not classified

4. FIRST AID MEASURES

General advice In case of contamination take off contaminated clothing immediately and remove from exposure. If you don't feel well seek medical advice.

Symptoms and effects Irritation of eyes and skin

First aid

Inhalation Remove to fresh air. Call a physician immediately.

Skin Wash all contaminated areas with plenty of water.
Take off contaminated clothing immediately.
Use soap to help complete removal of contamination. Isolate contaminated clothing when removal to prevent contact by others.

Eyes Flush eyes elaborately with plenty of water immediately. Seek medical attention.

Ingestion Rinse mouth with water. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing media Waterspray, foam, dry chemical powder, carbon dioxide.

Unsuitable extinguishing media High volume water jet, halones

Hazardous decomposition/combustion products Carbon dioxide, carbon monoxide, methane, tert-butanol, acetone, tert-amyl alcohol, ethane.



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Specific hazards during fire fighting

Generation of heat will further increase rate of decomposition.

CAUTION: re-ignition may occur

In case of fire, product will support combustion. Gaseous decomposition products may form explosive mixtures with air. Do not inhale fumes.

Protective equipment

Wear suitable fire resistant protective clothing.

Wear approved respirator and protective gloves.

Additional information

Use water for cooling intact containers. Avoid water used for extinguishing to get into the drainage system. Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition. Cool containers with water. Water used to extinguish a fire should not be allowed to enter the drainage system or water courses.

After fire, ventilate thoroughly the area and soak with water, clean the walls and metallic surfaces.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Do not breathe dust. Avoid contact with eyes and skin.

Environmental precautions

Collect in a clean container for reuse or disposal. Do not empty into drains or other water cycling systems.

Methods for cleaning up

Eliminate all sources of ignition, and do not generate flames or sparks.

Stop containers from leaking where possible. Collect the spilled product with e.g. vermiculite, while wearing personal protective equipment. and put it into a separate container for disposal. Avoid formation of dust and keep contents of waste containers always wet. Flush surrounding area with large amounts of water and soap.

Other information

As a precautionary action evacuate personnel to safe area, because of possible re-ignition

7. HANDLING AND STORAGE

Handling

Strictly avoid sources of heat and ignition in the area of product handling. Do not unload containers in the storage room. The handling area should be well ventilated. Avoid shock and friction.

Fire and explosion

Any sources of ignition like lightning matches or use of tools which can generate sparks, smoking etc. must be avoided, as well as contact with incompatible materials like reducing agents, heavy metal compounds, acids, and alkalies.

Storage requirements

Store in accordance with local regulations. Store product in the temperature range of 5° to 30°C., in dry and well ventilated places, in appropriate distance of sources of heat. Do not allow direct sunlight and do not store together with incompatible materials or dangerous goods.

Other information

When using the product do not eat, drink or smoke. Wash hands thoroughly after handling.
Treat working clothing separately from your private clothing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Make sure that working area is well ventilated.



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Personal protections

Respiratory	Use short duration filter unit: Filter A
Hand	Use appropriate protective gloves of synthetic rubber like neoprene or butyl-rubber
Eyes	Use safety goggles or face protection.
Skin and body	Use appropriate protective clothing
General hygiene	Clean hands thoroughly immediately after handling the product and before eating or drinking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Paste
Color	White
Odour	Faint
Boiling point/range	Not applicable, product decomposes
Flash point	Not applicable
Flammability	Decomposition products may be flammable
Explosive properties	No
Explosion limits	Not determined
Oxidizing properties	Yes
Active oxygen content	4,85 – 5,07 %
SADT	ca. 90°C (194°F)
Bulk density	ca. 600 kg/m ³ (20°C – 86°F)
Solubility in water	Insoluble
Solubility in other solvents	Soluble in most organic solvents
pH value	Neutral
Viscosity	Not applicable

10. STABILITY AND REACTIVITY

Stability	When reaching or exceeding the SADT (Self Accelerating Decomposition Temperature) a dangerous self-accelerating decomposition reaction can occur, which can lead to an explosion or fire.
Conditions to avoid	Any sources of heat and ignition. Avoid shock and friction. Do not allow for welding work in direct vicinity. Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metals compounds (e.g. accelerators, driers, metal salts). Avoid impurities (e.g. rust, dust, ash).
Materials to avoid	Accelerators, strong acids and bases, heavy metal salts, reducing agents.
Hazardous decomposition products	Ethane, methane, tert-amyl alcohol, tert-butyl alcohol, acetone.
Thermal decomposition	ca. +90°C (194°F)

11. TOXICOLOGICAL INFORMATION

There are no experimental toxicological data available on the preparation as such. The data shown below refer to the ingredients of the paste:

2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane, 90%

Acute toxicity	
Oral LD50	Rat :> 2000 mg/kg
Dermal LD50	Rat :> 2000 mg/kg Rabbit: 2800 – 5400 mg/kg



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Irritation

Skin Severely irritating
Eye Moderately irritating
Sensitization No sensitizer

Genotoxicity Ames test: not mutagenic

12. ECOLOGICAL INFORMATION

No experimental ecological data on the preparation as such available.

13. DISPOSAL CONSIDERATIONS

According to local disposal regulations.

14. TRANSPORT INFORMATION

Land transport:

ADR

Class: 5.2
Packaging group: II
Classification code: P1
UN No.: 3108
Description of the goods: ORGANIC PEROXIDE TYPE E, SOLID (2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane)
Label: 5.2



Label No 5.2

RID

Class: 5.2
Packaging group: II
Classification code: P1
UN No.: 3108
Description of the goods: ORGANIC PEROXIDE TYPE E, SOLID (2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane)
Label: 5.2

Sea transport

IMDG:

Class: 5.2
UN-No: 3108
EmS: F-J S-R
Marine pollutant: No
Proper technical name: ORGANIC PEROXIDE TYPE E, SOLID (2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane)

Air transport

ICAO/IATA:

Class: 5.2
UN-No: 3108
Proper technical name: ORGANIC PEROXIDE TYPE E, SOLID (2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane)

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15. REGULATORY INFORMATION

Chemical description 2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane 45%, paste in silicone rubber

Labelling



Signal word: **WARNING**

Hazard statement:

H242 Heating may cause a fire
H315 Causes skin irritation

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P234 Keep only in original container.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Immerse in cool water/wrap in wet bandages
P332+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

International Inventories (2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane)

USA TSCA Inventory Status: Listed
New Jersey Right-to Know List: Listed

16. OTHER INFORMATION

H226 Flammable liquid and vapour
H242 Heating may cause a fire
H315 Causes skin irritation
R7 May cause fire
R36/38 Irritating to eyes and skin

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. This information is regarded as guidance for safe handling, use, processing, storage, transportation, disposal and release only. It has not to be considered as a warranty or quality specification. This information refers only to the specific material, which is described in this data sheet and not to any potential mixtures of this product with other materials, NOVICHEM Sp. z o.o. disclaims any liability for loss or damage resulting from the use of these data, information or suggestions.
