

SAFETY DATA SHEET

According to: Regulation 453/2010 / EC of 20 May 2010 amending Regulation 1907/2006 / EC (REACH) as amended

HARDENER NORMAL CP 3016 VHS 4:1

Issue date: 2016-08-01

Revision date:

Version: 6.3

Page 2 of 5

-	1,6-Hexamethylene diisocyanate dimer; homopolymer	500-060-2	28182-81-2	Skin Sens. 1 H317 Acute Tox. 4 H332 STOT SE 3 H335	GHS07 Wng H317, H332, H335	70 – 80%	01- 2119485796- 17-0000
607-025-00-1	Butyl acetate	204-658-1	123-86-4	Flam. Liq. 3 H226 STOT SE 3 H336	GHS02 GHS07 Wng H226, H336, EUH066	15 – 25%	01- 2119485493- 29-XXXX
607-195-00-7	2-methoxy-1-methylethyl acetate	203-603-9	108-65-6	Flam. Liq. 3, H226 Eye Irrit. 2, H319	GHS02 GHS07 Wng H226, H319	0 – 10%	01- 2119475791- 29-XXXX

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information:

See 11 point SDS

Inhalation:

Move to fresh air, ensure quiet and warmth, seek medical advice.

Eyes contact:

Do not close the eye, rinse with plenty of water (protect) healthy eye, remove contact lenses, seek medical advice.

Skin contact:

Immediately remove all contaminated clothing, wash with plenty of water with soap, seek medical advice.

Ingestion:

Wash out mouth thoroughly with water. Drink 2-4 glasses of water. Do not induce the vomiting.

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

Seek medical advice.

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

Seek medical advice.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Water, vaporised water, foam, CO₂.

Unsuitable extinguishing media:

Tight stream of water.

5.2 Special hazards arising from the substance or mixture:

Under the influence of high temperature may produce CO, CO₂, and isocyanate vapours.

5.3 Advice for firefighters:

Firemen have to wear self-contained breathing apparatus and protective clothing. Cool adjacent tanks by spraying water from a safe distance.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Remove ignition sources. Provide for sufficient ventilation. Avoid direct contact with releasing substance (vapours). Avoid contact with eyes and skin. Get acquainted with safety conditions (see point 7 and 8 SDS).

For emergency responders:

6.2 Environmental precautions:

Keep away from drains, surface-water, ground-water and soil.

6.3 Methods and material for containment cleaning up:

Poured substance should be absorbed with non-flammable materials : sand, silica, special granulated products. Keep to a minimum efflux area. Collect discards, store according to regulations (see point 13 SDS).

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Keep away from heat; keep away from sources of ignition – do not smoke, do not eat, do not drink, do not breathe vapour, avoid contact with skin and eyes. Do not empty under pressure. Use only original tanks.

7.2 Conditions for storage, including any incompatibilities:

Normal precautions taken when handling flammable substances. Store in hermetically closed containers In temp. 5-25°C. Place of storage should be dry. Protect from heat. Do not store near to sources of ignition.

7.3 Specific end use(s):

Hardener normal for clear coat CP2016 VHS 4:1 for car bodies.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Limit values for Butyl acetate:

TLV: 150 ppm as TWA 200 ppm as STEL (ACGIH 2003).

HARDENER NORMAL CP 3016 VHS 4:1

Issue date: 2016-08-01

Revision date:

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Page 3 of 5

Limit values for 2-methoxy-1-methylethyl acetate:

MAK: 100 ppm 480 mg/m³

TLV: 100 ppm; 369 mg/m³ (as TWA), 150 ppm; 553 mg/m³ (STEL) (ACGIH 1997).
EU OEL: 100 ppm 375 mg/m³ as TWA 150 ppm 568 mg/m³ as STEL (skin) (EU 2000).

EU Limit Values: 50 ppm 275 mg/m³ (8 hours)

100 ppm 550 mg/m³ (short-term) skin

8.2 Exposure controls

Respiratory protection:

Gas mask with "A" type absorbing canister.

Hands protection:

Protective gloves for handling solvents (nitrile rubber).

Eyes protection:

Protective glasses.

Skin protection:

Suitable protective clothing.

Workplace:

Topical stays and exhausting ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:

liquid

Autoignition point:

no data

Colour:

colourless

Vapour pressure:

no data

Odour:

typical mixture of solvents

Explosion limits:

no data

pH:

no data

Density:

1,092 g/cm³

Boiling point:

> 124°C

Water solubility:

very poor

Melting point:

no data

Octanol/Water partition coeff:

no data

Flash point:

> 25°C

Viscosity:

no data

9.2 Other information

VOC

no data

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

No data

10.2 Stability:

If handled according to the section 7 product is stable.

10.3 Possibility of hazardous reactions:

No data

10.4 Avoid contact with:

Strong acids and basis, high temperature, fire.

10.5 Materials to be avoided:

No data

10.6 Hazardous decomposition products:

Incomplete combustion will produce CO, CO₂ and toxic gases.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

There are no data on the toxicity of this product.

Toxicity for 2-methoxy-1-methylethyl acetate:

LD₅₀ (rat, oral) – 8532 mg/kg

LD₅₀ (rat, skin) – 5000 mg/kg

Toxicity for Butyl acetate:

LD₅₀ (rat, oral) – 6400 mg/kg

LC₅₀ (rat, inhalation) – 9,6 mg/l (4h)

LD₅₀ (rabbit, skin) – >5000 mg/kg

Irritating effect:

Skin: prolonged or repeated exposure may result in drying of the epidermis, loss of the protective fat layer and permeation of the harmful substances to the subcutaneous layer.

Eyes: irritation of the mucosa and irreversible changes in the eye

Symptoms of poisoning:

Headaches, tiredness, muscle failure, partial or total loss of consciousness.

SECTION 12. ECOLOGICAL INFORMATION

There are no data on the ecotoxicity of this product.

12.1 Toxicity:

2-methoxy-1-methylethyl acetate acute toxicity

(LC₅₀/96 h) fish > 161 mg/l

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HARDENER NORMAL CP 3016 VHS 4:1

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Revision date:

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Page 4 of 5

for: (EC₅₀/48h) crustacea > 500 mg/l
Butyl acetate acute toxicity for: (LC₅₀/96 h) fish – 18 mg/l
(EC₅₀/48h) crustacea – 32 mg/l

12.2 Persistence and degradability: No data available
12.3 Bioaccumulative potential: No data available
12.4 Mobility in soil: No data available
12.5 Results of PBT assessment: No data available
12.6 Other adverse effects: No data available

The product is very poorly soluble in water. Do not allow to enter the sewage system, soil, or water reservoirs – inform the local authorities.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation: Product must be disposed of by special means in accordance with local regulations.
Remains of product: Remains of product in the tin should be carefully remove and mix clear coat CP2016 VHS 4:1 to harden. Harden product is not harmfully substance and could be treat like wastes in accordance with regulation.
Code of waste: 08 05 01*
Do not spill into drainage systems. Waste of this product must be burned in special installations for this purpose or dispose for authorized waste receiver.
Tin carefully clean is not harmful waste.
Code of waste : 15 01 04
Spent packages dispose for authorized receiver who has adequate permission for waste management.
Tin partly empty: See remains of products. Packs of an article containing residues of hazardous substances or contaminated by a hazardous waste code 15 01 10*

SECTION 14. TRANSPORT INFORMATION

14.1 UN number: 1263
14.2 UN proper shipping name: PAINT RELATED MATERIAL
14.3 Transport hazard class(es): 3
14.4 Packaging group: III
14.5 Environmental hazards: No applicable
14.6 Special precautions for user: Land transport: ADR/RID:
Classification code: F1
Tunnels: DIE
Sea transport IMDG: EmS: F-E, S-E
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislations specific for the ~~substance or mixture~~
67/548/EWG (2006/121/WE)
91/155/EWG (2001/58/WE)
1999/45/EC (2006/8/WE)
1991/322/EWG
2000/39/WE
2006/15/WE
2006/1907/WE (REACH)
2004/42/WE
2008/1272/WE (CLP)
Other regulations: ADR (2007-2009), IMDG Code 2006 Edition.
15.2 Chemical safety assessment – no chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

Full text of phrases from 3 point SDS according to CLP
H226 Flammable liquid and vapour
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H332 Harmful if inhaled



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H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness

EUH066 Repeated exposure may cause skin dryness or cracking

Flam. Liq. 3 Flammable liquid category 3

STOT SE 3 Specific target organ toxicity – single exposure category 3

Acute Tox. 4* Acute toxicity category 4

Eye Irrit. 2 Eye irritation category 2

Skin Sens. 1 Skin sensitization category 1

Version: 6.3

Page 5 of 5

The data contained in this Safety Data Sheet are based on our available knowledge at the last revision date. The data contained in this Safety Data Sheet give the conditions of safe use and storage of the product; this document does not give any guarantee as to the properties of the product.

Revision information: sections -

All persons whose work is related to the mixture should receive a proper training in safety, hygiene and legal requirements related to a mixture in compliance with their responsibilities.