SAFETY DATA SHEET

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

CP 286 HARDENER SLOW MS 2:1

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

1.1 Product identifier:	CP 286 Hardener Slow MS 2:1 Contains: Butyl acetate, 2-Butoxyethyl acetate EUH204 Contains isocyanates. May produce an allergic reaction.
1.2 Relevant identified uses of the ~~substance or~~ mixture and uses advised against:	Hardener slow for clear coats MS 2:1 for car bodies. No data.
1.3 Details of the supplier of the safety data sheet:	Multichem Sp. z o.o., ul. Przemysłowa 2, 62-032 Luboń, tel. +48 61 893 37 31, fax +48 61 893 37 32, e-mail: info@multichem.pl
1.4 Emergency telephone phone number:	tel. +48 61 893 37 31

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the ~~substance or~~ mixture

The product was classified as dangerous according to Regulation 1272/2008/EC

Classification:

Flam. Liq. 3 H226
Acute Tox. 4 H312
Skin Sens. 1 H317
Acute Tox. 4 H332
STOT SE 3 H335
STOT SE 3 H336

2.2 Label elements

Hazard pictograms:

According to Regulation 1272/2008/EC

Signal word :WARNING

Hazard statements:

H226 Flammable liquid and vapour
H312 + H332 Harmful in contact with skin or if inhaled.
H317 May cause an allergic skin reaction
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing..
P501 Dispose of contents/container to an authorized waste collection point.

2.3 Other hazards – no available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances – no applicable

3.2 Mixtures

Index number	Chemical Name	WE Number	CAS Number	Classification of substance according to CLP	Mark of substance	Weight	Registration Number

-	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	30 – 40%	01-2119488934-20-XXXX
607-038-00-2	2-Butoxyethyl acetate	203-933-3	112-07-2	Acute Tox. 4 * H332 Acute Tox. 4 * H312	GHS07 Wng H332, H312	25 – 30%	01-2119475112-47-XXXX
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	20 – 25%	01-2119485493-29-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, CO_2.

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, CO_2, 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 slow for clear coats MS 2:1 for car bodies.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Limit values for 2-Butoxyethyl acetate: TLV: 20 ppm as TWA A3 (ACGIH 2003).
MAK: 20 ppm 130 mg/m^3

	EU Limit Values: 20 ppm 133 mg/m^3(8 hours) 50 ppm 333 mg/m^3 (short-term) skin
Limit values for Butyl acetate:	TLV: 150 ppm as TWA 200 ppm as STEL (ACGIH 2003). MAK: 100 ppm 480 mg/m^3

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. PHISICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	**Autoignition point:**
liquid	no data
Colour:	**Vapour pressure:**
colourless	no data
Odour:	**Explosion limits:**
typical mixture of solvents	no data
pH:	**Density:**
no data	0,995 g/cm^3
Boiling point:	**Water solubility:**
> 124°C	very poor
Melting point:	**Octanol/Water partition coeff:**
no data	no data
Flash point:	**Viscosity:**
> 25°C	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, CO_2 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-Butoxyethyl acetate:	LD_{50} (rat, oral) – 1600 mg/kg LD_{50} (rabbit, skin) – 1500mg/kg
Toxicity for Butyl acetate:	LD_{50} (rat, oral) – 6400 mg/kg LC_{50} (rat, inhalation) – 9,6 mg/l (4h) LD_{50} (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:

Butyl acetate acute toxicity for:	(LC_{50}/96 h) fish – 18 mg/l (EC_{50}/48h) crustacea – 32 mg/l
2-Butoxyethyl acetate acute toxicity for:	(LC_{50}/48 h) fish – 80 mg/l

	(EC_{50}/48h) crustacea – 327mg/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 MS 2:1 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.
Clean tin:	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
14.3Transport 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: D1E 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
H312 Harmful in contact with skin
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H332 Harmful if inhaled

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 Irrit. 2 Skin irritation category 2
Skin Sens. 1 Skin sensitization category 1

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 1, 9
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.