

MATERIAL SAFETY DATA SHEET

In accordance with Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 with following amendments.

SOLL
professional refinishing

SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue: 11/30/2004

Updating date: 12/9/2022

Version: 6

Page: 1 of 10

SECTION 1 Mixture identification and manufacturer/supplier identification

1.1 Product identification

Product name: SOLL WPH Hardener for SOLL WP Washprimer 2+1

Product symbol: 0104-202– 0001

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

Hardener (2nd component) for reactive primer. Product for professional use.

1.3 Data of the safety data sheet supplier

UAB HELVINA
Parko str. 96, Ramučiai
LT-54464 Kaunas distr., Lithuania
Tel: +370 37 308901
Fax: +370 37 308902
E-mail: info@helvina.lt
www.helvina.lt

1.4 Emergency telephone

Poison control and information office: Tel. +370 37 308901 or +370 687 53378

SECTION 2: Hazard identification

2.1 Classification of the mixture

The product has been classified as hazardous in accordance with applicable regulations.

Classification 1272/2008/EC

Hazard class, category code	Hazard class	Hazard code	Hazard type
Flam. Liq. 2	Flammable liquid, cat. 2	H225	Highly flammable liquid and vapor.
Acute Tox. 4	Acute toxicity (ingestion), cat. 4	H302	Harmful if swallowed.
Skin Irrit. 2	Skin irritation, cat. 2	H315	Causes skin irritation
Eye Dam. 1	Serious eye damage, cat. 1	H318	Causes serious eye damage.
STOT SE 3	Specific target organ toxicity – single exposure, cat. 3, respiratory irritation.	H335	May cause respiratory irritation.
STOT SE 3	Specific target organ toxicity – single exposure, cat. 3, narcotic effect.	H336	May cause drowsiness or dizziness.

2.2 Label elements

Signal word

Contains

Pictograms

DANGER

Orthophosphoric acid; isopropanol; n-butyl alcohol



GHS02



GHS05



GHS07

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SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue: 11/30/2004

Updating date: 12/9/2022

Version: 6

Page: 2 of 10

Hazard statements**H225** Highly flammable liquid and vapor.**H302** Harmful if swallowed.**H315** Causes skin irritation**H318** Causes serious eye damage.**H335** May cause respiratory irritation.**H336** May cause drowsiness or dizziness.**Precautionary statements****Prevention****P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P260** Avoid breathing mist, vapor, spray.**P280** Wear protective gloves/protective clothing/eye protection/face protection.**Reaction****P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P303 + P361 + P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.**P310** Immediately call a POISON CENTER or doctor/physician.**Storage****P403+ P235** Store in a well ventilated place. Keep cool.**Disposal****P501** Dispose of contents/container to: landfill for hazardous substances.**Additional information on the label****2.3 Other hazards**

No data.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable.

3.2 Mixtures**Chemical nature:** mixture of organic compounds with additives.

Substance name	Concentration%	CAS	EC	Index	Registration no	Hazard class
isopropanol	50– 60	67-63 -0	200-661-7	603-117-00-0	01-2119457558-25-xxxx	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
n-butanol	40– 50	71-36-3	200-751-6	603- 004 -00-6	01-2119484630-38-xxxx	Flam. Liq. 3 H226 Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335 STOT SE 3 H336
orthophosphoric acid	< 2	7664-38-2	231-633-2	015- 011 -00-6	01-2119485924-24-xxxx	Skin Corr. 1B H314 Acute Tox. 4 H302 Met. Corr.1 H290

Full text of hazard statements provided in section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****Airways:**

Remove the victim from the area of exposure, provide access to fresh air. In case of respiratory arrest apply artificial respiration. Provide medical aid if needed.

MATERIAL SAFETY DATA SHEET

In accordance with Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 with following amendments.



SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue: 11/30/2004

Updating date: 12/9/2022

Version: 6

Page: 3 of 10

Ingestion:

Rinse mouth with water. Do not give anything to an unconscious person to swallow. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Provide medical aid if needed.

Contact with eyes:

Remove contact lenses. Rinse with plenty of water with the eyelid held wide open, avoiding a strong water jet. If necessary consult an ophthalmologist.

Contact with skin:

Take off contaminated clothes and shoes. Wash skin with plenty of water and soap. If skin irritation occurs, consult a doctor.

4.2 Most important symptoms both acute and delayed

High doses of vapors may cause: dizziness, drowsiness, headache, vomiting, loss of consciousness. Contact with skin may cause allergic reactions, its dryness and cracking. May cause damage to organs.

4.3 Indications of any immediate medical attention and special treatment needed

Symptomatic treatment. Provide the doctor with the product safety data sheet.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: carbon dioxide CO₂, extinguishing powders, alcohol-resistant foam, water mist.

Unsuitable extinguishing media: full jet of water.

5.2 Special hazards arising from the substance or mixture

Flammable liquid mixture. Combustion may form carbon oxides and other toxic gases. Vapors may re-ignite.

5.3 Advice for fire fighters

Use self-contained breathing apparatus and full protective clothing. Tanks exposed to high temperature should be cooled with water from a safe distance and, if possible, removed from the endangered area.

Collect the extinguishing water. Prevent extinguishing water from entering the surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency measures

Evacuate personnel to a safe place. Eliminate ignition sources. Avoid breathing vapor / mist / spray. Ensure adequate ventilation. Avoid contamination of eyes, skin and clothes. Use protective clothing and equipment.

6.2 Environmental precautions

Prevent from entering sewage system, surface water, ground water or soil. In the event of serious contamination of a watercourse, sewage system or soil, notify the appropriate administrative and control authorities and rescue organizations.

6.3 Methods and materials for containment and cleaning up

Eliminate the source of the leak. Collect small spills with non-combustible absorbent material. Collect large spills mechanically. Collect contaminated soil.

6.4 Reference to other sections

Personal protection measures – see section 8 of the Sheet.

Disposal considerations – see section 13 of the Sheet.

SECTION 7: Handling and storage of substances and mixtures

7.1 Precautions for safe handling

Avoid open flames and high temperature. Work in well ventilated rooms. Do not breathe vapors or spray. Avoid contamination of eyes, skin and clothes. Do not eat or drink at the site where the product is used. Wash hands before each break and at the end of work. Observe the rules of personal hygiene.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly sealed, original containers. Store in a cool and well ventilated area. Away from oxidants and sources of heat and fire. Avoid electrostatic discharge.

7.3 Special end use(s)

No data.

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SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue:	11/30/2004
Updating date:	12/9/2022
Version:	6
Page:	4 of 10

SECTION 8: Exposure control/personal protection measures

8.1 Control parameters

Maximum permissible concentrations:

SUBSTANCE	CAS	MPC (mg/m ³)	MPIC (mg/m ³)	MPCC (mg/m ³)	Note: Labeling the substance with the notation 'skin'
isopropanol	67-63-0	900	1200	-	skin
n-butanol	71-36-3	50	150	-	skin
orthophosphoric acid	7664-38-2	1	2	-	-

* Labeling the substance with the notation "skin" means that the absorption of the substance through the skin may be just as important as for inhalation exposure.

DNEL value

isopropanol	DNEL value	worker s	skin	long-term exposure	888 mg/kg bw/day
	DNEL value	worker s	inhalation	long-term exposure	500 mg/m ³
	DNEL value	consum ers	skin	long-term exposure	319 mg/kg bw/day
	DNEL value	consum ers	inhalation	long-term exposure	89 mg/m ³
	DNEL value	consum ers	ingestion	long-term exposure	26 mg/kg bw/day

n-butanol	DNEL value	worker s	inhalation	long-term exposure	10 mg/m ³
	DNEL value	consum ers	ingestion	long-term exposure	3,125 mg/kg/day
	DNEL value	consum ers	inhalation	long-term exposure	55 mg/m ³

orthophospho ric acid	DNEL value	worker s	inhalation	long-term exposure - systemic effects	10.7 mg/m ³
	DNEL value	worker s	inhalation	long-term exposure - systemic effects	1 mg/m ³
	DNEL value	worker s	inhalation	acute exposure - local effects	2 mg/m ³
	DNEL value	consum ers	inhalation	long-term exposure - systemic effects	4.57 mg/m ³
	DNEL value	consum ers	inhalation	long-term exposure - systemic effects	0.36 mg/m ³

PNEC value

isopropanol	PNEC value	fresh water	140.9 mg/l
	PNEC value	marine water	140.9 mg/l
	PNEC value	sediment (fresh water and marine water)	552 mg/kg
	PNEC value	sediment (marine water)	552 mg/kg
	PNEC value	soil	28 mg/kg

n-butanol	PNEC value	fresh water	0.082 mg/l
	PNEC value	marine water	0.0082 mg/l
	PNEC value	biological sewage treatment plant	2476 mg/l

MATERIAL SAFETY DATA SHEET

In accordance with Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 with following amendments.



SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue: 11/30/2004

Updating date: 12/9/2022

Version: 6

Page: 5 of 10

	PNEC value	sediment (fresh water and marine water)	0.178 mg/kg
	PNEC value	sediment (marine water)	0.0178 mg/kg
	PNEC value	soil	0.015 mg/kg

8.2 Exposure control

Technical control measures

General and local exhaust ventilation. Explosion-proof electrical installation.

Personal protective measures

Eye or face protection

Protective goggles/ tight safety glasses.

Skin protection

Chemical resistant gloves, e.g. neoprene, PVA with a thickness of min. 0.5 mm and a breakthrough time greater than 480 minutes. As the product is a mixture of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked before application. The manufacturer of the protective gloves provides information on the breakthrough time of the substance.

Protective, anti-electrostatic clothing.

Respiratory protection

In case of insufficient ventilation use a mask with an organic vapor filter of Type A or better.

Environmental exposure control

Prevent from entering into sewage system, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Color:	clear
Odor:	characteristic
Melting/freezing point:	No data
Boiling point:	~83 °C
Flammability of materials:	flammable
Bottom and top explosion limit (% v/v):	bottom 2 vol.% top 12 vol.% (isopropanol)
Flash point:	~13 °C
Auto ignition point:	No data
Breakdown point:	No data
pH:	Not applicable
Viscosity, flow time DIN4 (20±2 °C):	10 s
Solubility:	No data
n-octanol/water partition coefficient:	No data
Vapor pressure:	No data
Density (unit g/cm ³):	~ 0,80
Relative vapor density:	No data
Characteristics of the particles:	No data

9.2 Other information

No data.

SECTION 10: Stability and reactivity

10.1 Reactivity

No experimental data on the reactivity of the product under conditions of normal use.

10.2 Chemical stability

The product is stable under normal conditions.

MATERIAL SAFETY DATA SHEET

In accordance with Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 with following amendments.



SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue: 11/30/2004

Updating date: 12/9/2022

Version: 6

Page: 6 of 10

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use no hazardous reactions occur.

10.4 Conditions to be avoided

High temperatures, open flames and other heat sources.

10.5 Incompatible materials

Avoid contact with strong oxidants, acids, amines, alcohols and flammable materials.

10.6 Hazardous decomposition products

As a result of thermal decomposition, carbon monoxide and other toxic gases are generated.

SECTION 11: Toxicological information

11.1 Information on the hazard classes as defined in Regulation (EC) No. 1272/2008

There are no experimental data on toxicological effects of the product. The assessment was based on the data on components included in the product.

Acute toxicity:

isopropanol	LD ₅₀ (rat, oral)	>2000 mg/kg
	LD ₅₀ (rat, skin)	>2000 mg/kg
	LC ₅₀ (rat, inhalation)	>5 mg/l
orthophosphoric acid	LD ₅₀ (rat, oral)	1530 mg/kg
	LD ₅₀ (rabbit, skin)	2740 mg/kg
n-butanol	LD ₅₀ (rat, female, oral)	2292 mg/kg
	LC ₅₀ (rat, inhalation, 4h)	>17.76 mg/l
	LD ₅₀ (rabbit, skin)	3430 mg/kg

ATE_{mix} (oral) 300 < ATE_{mix} < 2000 mg/kg of body weight

ATE_{mix} (skin) > 2000 mg/kg of body weight

ATE_{mix} (inhalation) > 20 mg/l

The ATE_{mix} values have been calculated using the relevant conversion factor in Table 3.1.2. derived from Regulation 1272/2008/EC, as amended.

The mixture is classified as acute toxicity through ingestion.

Skin corrosion/irritation:

The mixture is classified as causing skin irritation.

Serious eye damage/eye irritation:

The mixture is classified as causing serious eye damage.

Allergic effect on airways or skin:

The mixture is not classified as causing skin irritation. No data confirming the hazard.

Mutagenic effect on germ cells:

The mixture is not classified as mutagenic. No data confirming the hazard.

Carcinogenic effect:

The mixture is not classified as carcinogenic.. No data confirming the hazard.

Harmful effect on reproduction:

The mixture is not classified as having harmful effect on reproduction. No data confirming the hazard.

Toxic effect on target organs – single exposure:

The mixture is classified as toxic to target organs - single exposure. May cause respiratory irritation. May cause drowsiness or dizziness.

Toxic effect on target organs – repeated exposure:

The mixture is not classified as toxic to target organs - repeated exposure.

Aspiration hazard:

The mixture is not classified as causing aspiration hazard. No data confirming the hazard.

11.2 Information on other hazards

No data.

MATERIAL SAFETY DATA SHEET

In accordance with Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 with following amendments.



SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue:	11/30/2004
Updating date:	12/9/2022
Version:	6
Page:	7 of 10

SECTION 12: Ecological information

12.1 Toxicity

There are no experimental data on toxicological effects of the product. The assessment was based on the data on components included in the product.

isopropanol	acute toxicity to fish Acute toxicity to aquatic invertebrates acute toxicity to algae	LC ₅₀ > 100 mg/l/48h EC ₅₀ > 100 mg/l/48h EC ₅₀ > 100 mg/l/72h
orthophosphoric acid	acute toxicity to fish	LC ₅₀ 100-1000 mg/l/96h
n-butanol	acute toxicity to fish Acute toxicity to aquatic invertebrates acute toxicity to algae	LC ₅₀ 1376 mg/l/96h EC ₅₀ 1328 mg/l/48h EC ₅₀ 225 mg/l/96h

12.2 Persistence and degradability

Isopropanol – biodegradability > 70%, 10 days
butan-1-ol – biodegradation 92%, 20 days

12.3 Bioaccumulative potential

isopropanol – log Pow = 0,05

12.4 Mobility in soil

No data.

12.5 Results of PBT and vPvB assessment

The mixture does not meet the PBT or vPvB criteria in accordance with Annex XIII of the Regulation (EC) No. 1907/2006.

12.6 Endocrine disrupting properties

No data.

12.7 Other hazardous effects

No data

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Used packaging and waste product should be delivered to authorized companies. Dispose of according to applicable local and official waste regulations – see section 15.

Waste code

08 01 11*	Waste paints and varnishes containing organic solvents or other dangerous substances.
15 01 10*	Packaging containing residues of or contaminated by dangerous substances or contaminated by dangerous substances (e.g. pesticides of I and II class of toxicity – very toxic or toxic).

SECTION 14: Transport information

	ADR/RID 1993	IMGD 1993	IATA 1993
14.1 UN number or ID number			
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (isopropyl alcohol)		
14.3 Transport hazard class (-es)	3	3	3
14.4 Packaging group	II	II	II
14.5 Environmental hazard	no	no	no
14.6 Special precautions for users	Not applicable.		
14.7 Maritime transport in bulk in accordance with IMO instruments	Not applicable.		

MATERIAL SAFETY DATA SHEET

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SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue: 11/30/2004

Updating date: 12/9/2022

Version: 6

Page: 8 of 10

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 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/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Law of 25 February 2011; on chemical substances and mixtures thereof (Journal of Laws No. 63, item 322, 2011), the consolidated text of 24 November 2017 (Journal of Laws, item 143, 2017) as amended.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 regarding the highest allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws, item 1286, 2018)

Regulation of the Minister of Health of February 2, 2011 regarding tests and measurements of factors harmful to health in the work environment (Journal of Laws, item 166, 2011).

Notice of the Minister of Health of 9 September 2016 regarding the publication of a uniform text of the Regulation of the Minister of Health on occupational health and safety related to the occurrence of chemical agents in the workplace (Journal of Laws, item 1488, 2016).

Government Declaration of July 26, 2005 on the entry into force of amendments to Annexes A and B of the European Agreement concerning the international carriage of dangerous goods by road (ADR) drawn up at Geneva on September 30, 1957 (Journal of Laws No. 178, item . 1481, 2005 as amended).

The Law of 14 December 2012 on waste (Journal of Laws item 21, 2013 as amended).

The Law of 20 July 2018 amending the act on waste and certain other acts (Journal of Laws, item 1592, 2018).

The Law of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws, item 888, 2013).

Regulation of the Minister of Climate of 2 January 2020 on the waste catalog (Journal of Laws, item 10, 2020).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of hazard statements mentioned in section 2– 15

Flam. Liq. 3	Flammable liquid, cat. 3
H226	Flammable liquid and vapor.
Flam. Liq. 2	Flammable liquid, cat. 2
H225	Highly flammable liquid and vapor.
Acute Tox. 4	Acute toxicity, cat 4.
H302	Harmful if swallowed.
Eye Irrit.2	Eye irritation, cat 2.
H319	Causes serious eye irritation.
STOT SE 3	Specific target organ toxicity – single exposure, cat 3.
H335	May cause respiratory irritation.
H336	May cause drowsiness and dizziness.
Eye Dam.1	Serious eye damage, cat 1.
H318	Causes serious eye damage.
Skin Irrit.2	Skin irritation, cat 2.
H315	Causes skin irritation
Skin Corr. 1B	Skin corrosion, cat 1.
H314	Causes serious skin and eyes burns.

Explanation of abbreviations

EC reference number used in the European Union to identify hazardous substances, in particular

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SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue: 11/30/2004

Updating date: 12/9/2022

Version: 6

Page: 9 of 10

those registered in the European Inventory of Existing Chemical Substances (EINECS), or in European List of Notified Chemical Substances (ELINCS), or the list of chemicals listed in 'No-longer polymers'

CAS	a number assigned to a chemical substance in Chemical Abstracts Service
MPC	maximum permissible concentration at the workplace - the highest permissible weighted average concentration, whose impact on the employee during 8 hours of work, throughout the entire period of his professional activity, should not cause changes in his state of health and the state of health of his future generations
MPIC	maximum permissible instantaneous concentration - the maximum permissible instantaneous concentration set as an average value that should not cause negative changes in the state of health of the worker and the state of health of his future generations, if it persists in the work environment for no more than 30 minutes during a shift
MPPC	concentration value which, due to the threat to the employee's health or life, cannot be exceeded in the work environment at any time
vPvB	very Persistent and very Bio-accumulative
PBT	Persistent, Bio-accumulative and toxic
DL ₅₀	lethal dose - the dose at which deaths of 50% of test animals are observed over a specified period of time
CL ₅₀	lethal concentration - the concentration at which deaths of 50% of the test animals are observed over a specified period of time
CE ₅₀	effective concentration - the effective concentration of the substance causing a response at 50% of the maximum value
DNEL	no-harmful level for human health - the level of exposure to a substance not harmful to human health
PNEC	Predicted no-effect concentration - the concentration of the substance below which no harmful effects are expected
PBC	permissible concentration in biological material - the highest permissible level of a specific factor or its metabolite in the relevant biological material or the highest permissible value of an appropriate indicator determining the impact of a chemical agent on the body
BCF	bioconcentration factor - the ratio of the concentration of a substance in the body to its concentration in water at equilibrium
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road .
UN number	four-digit material identification number in the UN Hazardous Materials List, derived from the UN Model Regulations, to which the individual material, mixture or object is classified
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association

Recommended use

The product is intended for professional use only

Other data sources

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

Other information

The product described in the safety data sheet should be stored and used in accordance with good industrial practice and in accordance with all legal regulations. The information and recommendations contained in the safety data sheet are based on our general experience and our latest knowledge, and have been presented in good faith. No part of this publication can be treated as guarantee, warranty or position directly, indirectly or otherwise. In all cases, it is the user's responsibility to determine and verify that the information and recommendations are accurate, sufficient and relevant to the particular case. The user is responsible for creating the conditions for the safe use of the product and he is responsible for the consequences of incorrect use of this product

MATERIAL SAFETY DATA SHEET

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SOLL WPH HARDENER FOR WP WASHPRIMER 2+1

Date of issue: 11/30/2004

Updating date: 12/9/2022

Version: 6

Page: 10 of 10

Classification of mixtures and evaluation method in accordance with regulation (EC) No. 1272/2008 [CLP]

Calculation method.

Changes

General changes.

Training

Before working with the product, the user should read the Safety Data Sheet and OHS rules regarding the handling of chemicals, and in particular undergo appropriate workplace training.

Issued by: UAB HELVINA

The above edition replaces the previous one.