SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

KH14, KH15, S2013

Creation date	13. May 2015		
Revision date	03. March 2018	Version	6.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier — KH14, KH15, S2013

Substance / mixture — mixture

Other mixture names — Syntetické vrchní barvy

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

mixture's intended use — Painting of metal. Only for industrial use

Disapproved uses of mixture — not available

1.3. Details of the supplier of the safety data sheet

Downstream user

Name or trade name	COLOR WEST s.r.o.
Address	Konzumní 207/14, Plzeň 10, 30100 Czech Republic
Identification number (ID)	25229184
Phone	371519401
E-mail	nosek@colorwest.cz
Web address	http://www.colorwest.cz/

Competent person responsible for the safety data sheet

Name	Ing. Jan Gerstenberger
E-mail	gerstenberger.j@gmail.com

1.4. Emergency telephone number

National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

2.1. Substance or mixture classification

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 3, H226
Asp. Tox. 1, H304
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H336
STOT RE 1, H372
Aquatic Chronic 2, H411

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

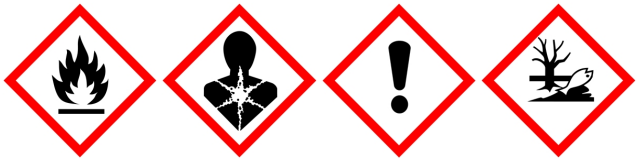
Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

Naphtha (petroleum), hydrotreated heavy
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Hydrocarbons C9, aromatic
Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics

Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P270	Do no eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P302+P352	IF ON SKIN: Wash with plenty of waterand soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a doctor if you feel unwell.
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to as hazardous waste.

Supplemental information

EUH 208	Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, 2-butanone oxime, phthalic anhydride, methyl-(1,2,2,6,6-pentanethyl-4-piperidyl)-sebacate, cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 601-022-00-9d CAS: 1330-20-7 EC: 215-535-7 Registration number: 01-2119488216-32-xxxx	Xylene	≤33	Flam. Liq. 3, H226 Acute Tox. 4, H312, H332 Skin Irrit. 2, H315	1

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 7727-43-7 EC: 231-784-4	barium sulfate	≤32		
Index: 649-327-00-6 CAS: 64742-48-9 EC: 265-150-3	Naphtha (petroleum), hydrotreated heavy	≤24	Asp. Tox. 1, H304 Muta. 1B, H340 Carc. 1B, H350	2, 3
EC: 919-446-0 Registration number: 01-2119458049-33-	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	≤20	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 STOT RE 1, H372 Aquatic Chronic 2, H411	
CAS: 1317-65-3 EC: 215-279-6	limestone	≤10		
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9	2-methoxy-1-methylethyl acetate	≤8	Flam. Liq. 3, H226	4
CAS: 14807-96-6 EC: 238-877-9	talc	<5		
CAS: 16389-88-1	dolomite	<5		
EC: 918-668-5	Hydrocarbons C9, aromatic	≤5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411	
EC: 918-317-6 Registration number: 01-2119474196-32-XXXX	Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics	<3	Asp. Tox. 1, H304	
Index: 649-423-00-8 CAS: 64742-81-0 EC: 265-184-9	Kerosine (petroleum), hydrodesulfurized	≤2	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
Index: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6	n-butanol	≤1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	
CAS: 22464-99-9 EC: 245-018-1	2-ethylhexanoic acid, zirconium salt	<1	Repr. 2, H361d	
CAS: 41556-26-7 EC: 255-437-1	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	<1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
Index: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4	ethylbenzene	<1	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Acute Tox. 4, H332 STOT RE 2, H373	4
Index: 616-014-00-0 CAS: 96-29-7 EC: 202-496-6	2-butanone oxime	≤0,8	Acute Tox. 4, H312 Skin Sens. 1, H317 Eye Dam. 1, H318 Carc. 2, H351	

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 607-009-00-4 CAS: 85-44-9 EC: 201-607-5	phthalic anhydride	≤0,5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335	
CAS: 82919-37-7 EC: 280-060-4	methyl-(1,2,2,6,6-pentanethyl-4-piperidyl)-sebacate	<0,5	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
CAS: 34590-94-8 EC: 252-104-2	(2-methoxymethylethoxy)propanol	≤0,35		4
CAS: 136-52-7 EC: 205-250-6	cobalt bis(2-ethylhexanoate)	≤0,35	Skin Sens. 1, H317 Eye Irrit. 2, H319 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 3, H412	

Notes

1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

2 Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

3 Fulfilled Note P

4 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

not available

Inhalation

Put the affected person into the open air. Lay the victim to a quiet place, cover and keep warm. If not breathing or breathing is irregular give artificial respiration or oxygen. If adverse health effects persist or are severe, consult a physician. If unconscious, place in recovery position and get medical attention immediately. Keep air passages free

Skin contact

Remove the contaminated clothing and shoes. Rinse /Wash affected skin with plenty of water and soap. If symptoms persist, call for medical help.

Eye contact

If the afflicted person wears contact lenses, they must be removed immediately. Rinse the eyes with eyelids open by stream of drinking water for at least 15 minutes. If the irritation persists, call for a professional medical help

Ingestion

If the afflicted person is conscious:
First rinse the mouth with water. Move victim to fresh air and keep at rest in a position comfortable for breathing. Make the affected person to take a sip of water. Stop if victim feels sick. Do not make the person vomit. If vomit, keep head in such a position, so as vomit will not get into the lungs.
If the person is unconscious:
First rinse the mouth with water. Move victim to fresh air and keep at rest in a position comfortable for breathing. Never give anything by mouth. Get medical attention immediately. Keep air passages free.

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

Inhalation

Possible irritation of respiratory pathways, cough, headache.

Skin contact

Skin irritation, redness, itching

Eye contact

Eye irritation, burning, lacrimation

Ingestion

Headache, dizziness, nausea, stomach ache, diarrhoea

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

There are no specific instructions.

More information

The mixture contains xylene. Specific instruction for xylene: chronical exposure of xylene can cause dermatitis. Aspiration can cause pulmonary oedema and pneumonia. After ingestion must be stomach evacuate by probang. Ingestion cas cause damage of CNS, liver, reins, blood and marrow.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist

Unsuitable extinguishing media

water - full jet

5.2. Special hazards arising from the substance or mixture

Fire produces heavy black smoke, it can be carbon oxides and another toxic gases produced (nitrogen oxides, indefinableness mixtures of organic compounds). Inhalation of dangerous decomposition (pyrolytic) products can cause serious health damage. Solvent vapours are heavier than air and can be spread across the floor. Solvent vapours can create explosive mixtures with air.

5.3. Advice for firefighters

Cool closed containers exposed to fire with water spray. Do not allow contaminated extinguishing media to enter sewerage, ground- and surface waters. Use insulation breathing apparatus as well as complete protective clothing. Close the endangered area and secure the entry to authorized personnel only.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and goggles or face shield. Ensure adequate ventilation. Do not breathe vapour / aerosol. Remove all possible sources of ignition. No smoking and the use of naked flames. Ban on entry of unnecessary and unprotected personnel

6.2. Environmental precautions

Prevent the product from leaking into the environment, ground and surface water, sewerage, or into the soil. Prevent the liquid from leaking by closing or sealing the leak. If the product got into water, drains or soil, inform respective authorities dealing with environmental protection

6.3. Methods and material for containment and cleaning up

Contain and collect spillage by non-combustible, absorbent material e.g. sand, soil, diatomaceous earth and place in container for disposal according to local regulations. Dispose via company that has a license for waste disposal. Contaminated absorbent material may pose the same hazard as the spilled product

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use personal protective equipment (see Section 8). Provide good vapour ventilation of working area. Do not breathe vapours/ aerosol. Prevent contact with skin and eyes. When working, it is not allowed to drink, eat and smoke and it is necessary to maintain good personal hygiene. Keep container tightly closed. Prevent contact with heat, sparks, open flame or any other ignition source. Take precautionary measures against electrostatic discharges

7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed container protected from direct sunlight in dry, cool and well-ventilated spaces, away from incompatible materials (see Section 10) and food, feed and beverages. Containers must be properly labeled. Store away from: sources of ignition (open flames, sparks, hot surfaces), explosive substances. Store at temperatures of 2-40 ° C. Packaging should be stored either in the store, which also forms a collecting basin or must be stored under such conditions that if package is broken, it prevents leakage into the environment, water resources, drains or soil

Storage class	3A - Flammable liquids (flash point below 55 °C)
Storage temperature	min 2 °C, max 40 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL	8 hours	275 mg/m³		směrnice EU
	OEL	8 hours	50 ppm		
	OEL	Short-term	550 mg/m³		
	OEL	Short-term	100 ppm		
ethylbenzene (CAS: 100-41-4)	OEL	8 hours	442 mg/m³		směrnice EU
	OEL	8 hours	100 ppm		
	OEL	Short-term	884 mg/m³		
	OEL	Short-term	200 ppm		
(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)	OEL	8 hours	308 mg/m³		směrnice EU
	OEL	8 hours	50 ppm		

DNEL

2-methoxy-1-methylethyl acetate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	275 mg/m³	Systemic chronic effects	
Workers	Dermal	153.5 mg/kg	Systemic chronic effects	
Consumers	Oral	1.67 mg/kg	Systemic chronic effects	
Consumers	Inhalation	33 mg/m³	Systemic chronic effects	
Consumers	Dermal	54.8 mg/kg	Systemic chronic effects	

Hydrocarbons C9, aromatic

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	25 mg/kg	Systemic chronic effects	
Workers	Inhalation	100 mg/m³	Systemic chronic effects	
Consumers	Dermal	11 mg/kg	Systemic chronic effects	
Consumers	Inhalation	32 mg/m³	Systemic chronic effects	
Consumers	Oral	11 mg/kg	Systemic chronic effects	
Workers	Inhalation	150 mg/m³	Systemic chronic effects	

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	44 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	330 mg/m³	Systemic chronic effects	
Consumers	Oral	26 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	71 mg/m³	Systemic chronic effects	
Workers	Inhalation	570 mg/m³	Systemic acute effects	
Consumers	Inhalation	570 mg/m³	Systemic acute effects	

phthalic anhydride

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Oral	5 mg/kg bw/day	Systemic chronic effects	
Workers	Oral	10 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	5 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	10 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	8.6 mg/m³	Systemic chronic effects	
Workers	Inhalation	32.2 mg/m³	Systemic chronic effects	

Xylene

Workers / consumers	Route of exposure	Value	Effect	Determining method
Consumers	Inhalation	174 mg/m³	Systemic acute effects	
Consumers	Dermal	108 mg/kg	Systemic chronic effects	
Consumers	Inhalation	14.8 mg/kg	Systemic chronic effects	
Consumers	Oral	1.6 mg/kg	Systemic chronic effects	
Workers	Inhalation	289 mg/m³	Systemic acute effects	
Workers	Inhalation	77 mg/m³	Systemic chronic effects	
Workers	Dermal	180 mg/kg	Systemic chronic effects	
Workers	Inhalation	289 mg/m³	Systemic acute effects	
Workers	Inhalation	77 mg/m³	Systemic chronic effects	

PNEC

2-methoxy-1-methylethyl acetate

Route of exposure	Value	Determining method
Freshwater environment	0.635 mg/l	
Seawater	0.0635 mg/l	
Water (occasional leak)	6.35 mg/l	
Freshwater sediment	3.29 mg/kg	
Sea sediments	0.329 mg/kg	
Soil (agricultural)	0.29 mg/kg	
Microorganisms in wastewater treatment plants	100 mg/l	

phthalic anhydride

Route of exposure	Value	Determining method
Soil (agricultural)	0.153 mg/kg	
Microorganisms in wastewater treatment plants	10 mg/l	
Freshwater sediment	0.826 mg/kg	
Sea sediments	0.38 mg/kg of dry substance	
Seawater	0.1 mg/l	
Freshwater environment	1 mg/l	
Sea sediments	0.0826 mg/kg	

8.2. Exposure controls

Ensure adequate ventilation. Use closed workplace, local exhaust ventilation or other engineering controls to prevent exceeding exposure limits

Eye/face protection

Protective goggles with side shields or a face shield

Skin protection

Wear suitable protective gloves. Throughput time> = 8 hours. Glove material consult with glove manufacturer. Protective clothing and rubber boots, exposed skin before work protect with cream

Respiratory protection

In case of short-term exposure or low concentrations use respirator with filter against organic vapours, against high concentrations and long-term exposure is required insulating respirator

Thermal hazard

not available

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

More information

Take off stained clothing immediately. Avoid contact with skin and eyes. Do not inhale gases, vapours and aerosols. When handling: do not eat, drink or smoke. Before breaks and after work wash your hands

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	thixotropic colour liquid
Physical state	liquid at 20°C
color	various
Odour	after organic solvents
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	>120 °C
Flash point	30-<60 °C
Evaporation rate	data not available

Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	
bottom	1 %
upper	11 %
Vapour pressure	data not available
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available

9.2. Other information

Density	1,0-1,4 g/cm^3
ignition temperature	data not available

Efflux time: 100-250s (cup diam. 4 mm)

SECTION 10: Stability and reactivity

10.1. Reactivity

When used as recommended, it does not react

10.2. Chemical stability

When used as recommended, it does not decompose

10.3. Possibility of hazardous reactions

Avoid contact with strong acids, strong alkali, oxidizing agents

10.4. Conditions to avoid

Avoid contact with sources of ignition.

10.5. Incompatible materials

Strong acids, strong alkali, oxidizing agents. Xylene damages rubber after long exposure, which becomes softer after its effect and decompose.

10.6. Hazardous decomposition products

Decomposition happens only due to the heat (burning) - see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Human experiences: xylene - LCLo (inh, human): 10000 ppm (6h) TCLo (inh, human): 200 ppm; 2-methoxy-1- methylethyl-acetate - smell threshold for humans is about 100 ppm. Higher concentration cause eye irritation and respiratory irritation. Anesthetic effects are reflected at about 1000 ppm

Acute toxicity

Based on available data the classification criteria are not met.

(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD50	>5000 mg/kg		Rat		ext. BL (MSDS)
Dermal	LD50	9510 mg/kg		Rabbit		ext BL (MSDS)

(2-methoxymethylethoxy)propanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Inhalation (aerosols)	LC50	3350 mg/m³	72 hour	Rat		ext. BL (MSDS)

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD50	8532 mg/kg		Rat		

ethylbenzene

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD50	3500 mg/kg		Rat		
Dermal	LD50	17800 mg/kg		Rat		
Inhalation (vapor)	LC50	17400 mg/kg	4 hour	Rat		

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Dermal	LD50	3400 mg/kg		Rabbit		externí bezp. list / external MSDS
Oral	LD50	>15000 mg/kg		Rat		externí bezp. list / external MSDS
Oral	NOAEL	300 mg/kg	2 year	Rat	M	externí bezp. list / external MSDS
Oral	LOAEL	116 mg/kg	30 day	Rat	M	externí bezp. list / external MSDS
Oral	NOAEL	≥495 mg/kg	90 day	Rat	M	externí bezp. list / external MSDS

Naphtha (petroleum), hydrotreated heavy

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Dermal	LD50	3160 mg/kg		Rat		ext. BL (MSDS)
Oral	LD50	5000 mg/kg		Rat		ext. BL (MSDS)

phthalic anhydride

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Dermal	LD50	>3160 mg/kg		Rabbit		ext. BL
Oral	LD50	1530 mg/kg		Rat		ext. BL

Xylene

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD50	4300 mg/kg		Rat		
Dermal	LD50	>4350 mg/kg		Rat		
Inhalation	LC50	0.6350 mg/kg	4 hour	Rat		

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
Based on available data the classification criteria are not met.

Germ cell mutagenicity
Based on available data the classification criteria are not met.

Carcinogenicity
Based on available data the classification criteria are not met.

Reproductive toxicity
Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure
May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity
Data for the mixture are not available.

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Species	Environment	Source
LC50	180 mg/l	96 hour	Fishes		
EC50	500 mg/l	48 hour	Daphnia		

ethylbenzene

Parameter	Value	Time of exposure	Species	Environment	Source
LC50	5.1 mg/l	96 hour	Fishes (Menidia menidid)		registrační dokumentace
NOEC	3.3 mg/l		Fishes (Menidia menidid)		registrační dokumentace
LC50	2.6 mg/l	96 hour	Invertebrates (Mysidopsis Bahia)		registrační dokumentace
NOEC	1.0 mg/l		Invertebrates (Mysidopsis Bahia)		registrační dokumentace
EC50	3.6 mg/l	96 hour	Algae (Selenastrum capricornutum)		registrační dokumenatace
NOEC	3.4 mg/l		Algae (Selenastrum capricornutum)		registrační dokumentace

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Parameter	Value	Time of exposure	Species	Environment	Source
EC50	10-22 mg/l	48 hour	Daphnia		externí bezp. list / external MSDS
IC50	4.6-10 mg/l	72 hour	Algae		externí bezp. list / external MSDS
LC50	10-30 mg/l	96 hour	Fishes		externí bezp. list / external MSDS
NOAEC	0.28 mg/l	21 day	Daphnia		externí bezp. list / external MSDS
Log Pow	3.7-6.7				externí bezp. list / external MSDS

Naphtha (petroleum), hydrotreated heavy

Parameter	Value	Time of exposure	Species	Environment	Source
LC50	2200 mg/l	96 hour	Pimephales promelas		ext. BL (MSDS)

phthalic anhydride

Parameter	Value	Time of exposure	Species	Environment	Source
NOEC	16 mg/l	21 day	Daphnia		ext. BL
EC50	>640 mg/l	48 hour	Daphnia	Freshwater	ext. BL
EC50	>1000 mg/l	3 hour	Microorganisms		ext.BL

talc

Parameter	Value	Time of exposure	Species	Environment	Source
LC50	>100000 mg/l	96 hour	Fishes		

Xylene

Parameter	Value	Time of exposure	Species	Environment	Source
LC50	26.7 mg/l	96 hour	Fishes		

12.2. Persistence and degradability

Biodegradability

(2-methoxymethylethoxy)propanol

Parameter	Value	Time of exposure	Environment	Result	Source
	75 %	28 day			OECD 301F, ext. BL/MSDS

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Environment	Result	Source
	100 %	8 day			ext. BL(MSDS) metoda OECD TG 302 B

ethylbenzene

Parameter	Value	Time of exposure	Environment	Result	Source
	45 %				ext. BL(MSDS) Metoda: Kultivační metoda (test v uzavřené nádobce)

Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics

Parameter	Value	Time of exposure	Environment	Result	Source
BOD	89.9 %	28 day			BL dodavatele

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Parameter	Value	Time of exposure	Environment	Result	Source
	74.7 %	28 day		Easily biodegradable	externí bezp. list / external MSDS

n-butanol

Parameter	Value	Time of exposure	Environment	Result	Source
	>70 %				ext. BL(MSDS) Zahn-Wellens Test

Xylene

Parameter	Value	Time of exposure	Environment	Result	Source
	88 %	28 day			ext. BL/MSDS

For product no information available

12.3. Bioaccumulative potential

(2-methoxymethylethoxy)propanol

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
BCF	<100					ext. BL/MSDS

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
BCF	<100					ext. BL (MSDS)
Log Pow	0.56					ext. BL (MSDS)

phthalic anhydride

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
Log Pow	1.6					ext. BL (MSDS)

Xylene

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
BCF	6-23					ext. BL/MSDS
Log Pow	3.1-3.2					ext. BL/MSDS

For product no information available

12.4. Mobility in soil

2-methoxy-1-methylethyl acetate

Parameter	Value	Environment	Surrounding temperature	Source
Poc	0-50 %			ext. BL(MSDS)

Xylene

Parameter	Value	Environment	Surrounding temperature	Source
Log Koc	48-540			ext. BL/MSDS

For product no information available

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Prevent the product from leaking into the environment, water resources, sewerage, or soil. See Section 6.2

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended. Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
08 01 17	wastes from paint or varnish removal containing organic solvents or other dangerous substances

Packaging waste type code

15 01 10	packaging containing residues of or contaminated by dangerous substances
15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

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SECTION 14: Transport information

14.1. UN number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in Sections 4 to 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Additional information

Hazard identification No.	**30** (Kemler Code)
UN number	**1263**
Classification code	F1
Safety signs	3+hazardous for the environment

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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 16th December 2008 on classification, labelling 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. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

15.2. Chemical safety assessment

Not done

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P270	Do no eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P302+P352	IF ON SKIN: Wash with plenty of waterand soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to as hazardous waste.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a doctor if you feel unwell.

A list of additional standard phrases used in the safety data sheet

EUH 208	Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, 2-butanone oxime, phthalic anhydride, methyl-(1,2,2,6,6-pentanethyl-4-piperidyl)-sebacate, cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level

log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Muta.	Germ cell mutagenicity
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the mixture.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

Safety Data Sheets of raw materials, the ECHA website, the registration dossier

The changes (which information has been added, deleted or modified)

Article(s): 2,11,12,13,15,16

Statement

The Safety Data Sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.