

Safety Data Sheet

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Issue date: 4/4/2023 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : CHS-ALKYD AL 3964
Product code : USA_50463091
Other means of identification : Modified polyestere in mixture of the solvents.

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Raw material for coatings.
Use of the substance/mixture : Professional uses
Industrial use
Consumer use
Restrictions on use : There are no uses advised against identified

1.3. Supplier

Manufacturer

Spolek pro chemickou a hutní výrobu, a.s.
Revoluční 1930/86
Ústí nad Labem, 400 32
Czech Republic
T + 420 477 161 111 - F + 420 477 163 333
info@spolchemie.cz - <http://www.spolchemie.cz>
Contact: msds@spolchemie.cz

1.4. Emergency telephone number

Emergency number : CZ: +420 477 162 094/ EN: +420 476 163 111 non-stop service
Listing of national helpdesks at: http://echa.europa.eu/help/nationalhelp_contact_en.asp.

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 3	H226	Flammable liquid and vapor	On basis of test data
Skin corrosion/irritation Category 2	H315	Causes skin irritation	Calculation method
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage	Calculation method
Full text of H statements : see section 16			

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger
Hazard statements (GHS US) : H226 - Flammable liquid and vapor
H315 - Causes skin irritation
H318 - Causes serious eye damage

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Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Concentration (%)	GHS US classification
Soybean oil ethylene glycol pentaerythritol phthalic anhydride polymer	CAS-No.: 67700-76-9	69 – 71	Not classified
2-methylpropan-1-ol, iso-butanol	CAS-No.: 78-83-1	17 – 18	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
2-butoxyethanol; ethylene glycol monobutyl ether	CAS-No.: 111-76-2	12 – 13	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
In a life threatening condition soon carry out resuscitation affected and seek medical advice.
Respiratory arrest: immediately administer artificial respiration.
Cardiac arrest: immediately perform indirect heart massage.
Unconsciousness: place patient in recovery position.

First-aid measures after inhalation : Remove the victim quickly and considering own safety to fresh air, do not let the victim walk!
Depending on situation, it is recommended to rinse oral cavity and, if necessary, nose with water. If the victim's clothing is contaminated, change it and protect the victim against cold.
Depending on situation, call the rescue service or get medical attention due to the frequent need for further follow-up for at least 24 hours.

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First-aid measures after skin contact	: Remove contaminated clothing immediately; before washing or during washing, remove any rings, watches, bracelets that are in places of contact of the substance with skin. Rinse affected areas with stream of lukewarm water, if possible, for 10 to 30 minutes; do not use a brush, soap or neutralising agents! Cover burned areas of skin with a sterile dressing, do not use any ointments or other medical and pharmaceutical products. Cover the victim to protect him against cold. Depending on situation, call the rescue service or ensure medical attention.
First-aid measures after eye contact	: Rinse eyes immediately under running water, open eyelids (even by force); if the victim wears contact lenses, remove them immediately. Do never neutralise! Rinse for 10 to 30 minutes from the inner to the outer ocular angle to prevent running of water in the other eye. Depending on the situation, call an ambulance or medical attention as quickly as possible, if possible professional treatment. The victim needs to get medical attention even with in the case of a small injuries.
First-aid measures after ingestion	: DO NOT INDUCE VOMITING - risk of further damage to the digestive tract !!! There is a risk of perforation of the esophagus and the stomach! RINSE MOUTH IMMEDIATELY WITH WATER AND GIVE TO DRINK 2-5 dl of cold water to reduce the thermal effect of the caustics! Do not force the victim to drink, especially if he/she feels pain in mouth or throat. In this case, make the victim rinse his/her mouth. DO NOT ADMINISTER ACTIVATED CARBON! (blackening will make examination of the mucous membranes of more difficult and activated charcoal has not positive effect in case of acids and lyes). Do not give anything by mouth if the victim is unconscious or has convulsions. Depending on situation, call the rescue service or get medical attention as quickly as possible.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Risk of serious damage to eyes.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Foam, carbon dioxide (CO ₂), dry chemical powder, hazy water.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂).
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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Protective clothing including eye, respiratory passages and hand protection.
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6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release of product or components to the environment, sewers and surface water or soil.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dam up spilled product, contain with inert material (e. g. kieselguhr, sand). Place into an impervious container and dispose of at hazardous chemical waste collection point or incinerate in a furnace where permitted under local regulations.

6.4. Reference to other sections

Additional advice : Refer to section 8, 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Observe working instructions. . Ensure good ventilation and local exhaust at the workplace. When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. Provide local exhaust or general room ventilation.

Storage temperature : 5 – 25 °C

Heat-ignition : Keep away from sources of ignition.

Information on mixed storage : Store away from other materials.

Storage area : Drinking water. A first aid kit with appropriate content must be available. Store in a place accessible by authorized persons only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

CHS-ALKYD AL 3964	
USA - ACGIH - Occupational Exposure Limits	
Local name	Isobutanol
ACGIH OEL TWA [ppm]	50 ppm
Remark (ACGIH)	TLV® Basis: Skin & eye irr
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Isobutyl alcohol
OSHA PEL (TWA) [1]	300 mg/m³
OSHA PEL (TWA) [2]	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Butoxyethanol (EGBE)
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2022

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2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
USA - OSHA - Occupational Exposure Limits	
Local name	2-Butoxyethanol
OSHA PEL (TWA) [1]	240 mg/m ³
OSHA PEL (TWA) [2]	50 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
2-methylpropan-1-ol, iso-butanol (78-83-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Isobutanol
ACGIH OEL TWA [ppm]	50 ppm
Remark (ACGIH)	TLV® Basis: Skin & eye irr
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Isobutyl alcohol
OSHA PEL (TWA) [1]	300 mg/m ³
OSHA PEL (TWA) [2]	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Soybean oil ethylene glycol pentaerythritol phthalic anhydride polymer (67700-76-9)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls : Local exhaust recommended.
Environmental exposure controls : Avoid release of product or components to the environment, sewers and surface water or soil.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear suitable gloves tested to EN374
Eye protection:
Protective goggles or face shield
Skin and body protection:
Twilled fabric clothing, footwear.
Respiratory protection:
At higher concentrations use supplied air respirator.

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: yellow to brown
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: 35 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.03 g/cm ³ (20°C)
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: 240 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 13 – 18 Pa·s (23°C)
Explosion limits	: Lower explosion limit: 1.1 Upper explosion limit: 10.6
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

VOC content	: 29 – 31 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Not determined.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Unknown.

10.5. Incompatible materials

Not determined.

10.6. Hazardous decomposition products

On combustion, forms: carbon oxides (CO and CO₂).

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)

LD50 oral rat	1200 mg/kg body weight
ATE US (oral)	1200 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

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IARC group	3 - Not classifiable
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2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified
STOT-single exposure : Not classified

2-methylpropan-1-ol, iso-butanol (78-83-1)

STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
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STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Risk of serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

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Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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12.4. Mobility in soil

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Ecology - soil	Not established.
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12.5. Other adverse effects

Other adverse effects : Unknown.




SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)	: Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.
Product/Packaging disposal recommendations	: Uncured or imperfectly cured residues (waste of category N, waste type code 08 04 09) should be placed in impermeable packaging and hand them over to an authorized person for disposal / recovery. Perfectly cured residues (waste category O code of waste 08 04 10) should be placed in impermeable packaging and hand them over to an authorized person for disposal / recovery. Contaminated packaging (waste of category N, waste code 15 01 10) should be hand them over to an authorized person for disposal / recovery.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
1866	1866	1866
14.2. Proper Shipping Name		
Resin solution	RESIN SOLUTION	Resin solution
14.3. Transport hazard class(es)		
3	3	3
 Not applicable		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

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14.6. Special precautions for user

Special transport precautions	: Requirements for the material design of means of transport: Tank-vehicles /tank-containers: stainless steel - 316 Seal: material resistant to petroleum substances and temperatures up to 100 °C (eg Teflon)
DOT	
UN-No.(DOT)	: UN1866
DOT Special Provisions (49 CFR 172.102)	: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 173
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
IMDG	
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG)	: A
IATA	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provision (IATA)	: A3
ERG code (IATA)	: 3L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

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Name	CAS-No.	Listing	Commercial status	Flags
2-butoxyethanol; ethylene glycol monobutyl ether	111-76-2	Present	Active	
2-methylpropan-1-ol, iso-butanol	78-83-1	Present	Active	
Soybean oil ethylene glycol pentaerythritol phthalic anhydride polymer	67700-76-9	Present	Active	XU

2-methylpropan-1-ol, iso-butanol (78-83-1)

Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ

5000 lb

15.2. International regulations

CANADA

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

2-methylpropan-1-ol, iso-butanol (78-83-1)

Listed on the Canadian DSL (Domestic Substances List)

Soybean oil ethylene glycol pentaerythritol phthalic anhydride polymer (67700-76-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

2-methylpropan-1-ol, iso-butanol (78-83-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

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Data sources

: List of hitherto classified dangerous substances. Internet database of chemical substances.
Safety data sheets of raw materials.

Training advice

: Those who manipulate with the product must be demonstrably informed of its dangerous properties, principles of protecting the environment and health from its harmful effects and principles of first aid.

Other information

: EINECS : All components listed or polymer exempt.

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Full text of H-phrases	
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Abbreviations and acronyms	
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
DNEL	Derived-No Effect Level

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.