

acc. to 29 CFR 1910.1200 App D

AchievAL FRH 46

Revision: 2024-06-05

Version number: GHS 2.0 Replaces version of: 2024-03-25 (GHS 1)

SECTION 1: Identification

1.1 Product identifier

Trade name Other means of identification AchievAL FRH 46

13209

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

Relevant identified uses

Uses advised against

Hydraulic fluid Professional use Industrial use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (house-hold).

1.3 Details of the supplier of the safety data sheet

KOST USA 1000 Tennessee Avenue Cincinnati OH 45229 United States

Telephone: 1-800-661-9391 Telefax: 1-513-492-5555 e-mail: sales@kostusa.com Website: www.kostusa.com

1.4 Emergency telephone number

Emergency information service

1-800-424-9300 24 hr emergency information

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard state- ment
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word
- Pictograms

GHS05, GHS08



danger



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- Hazard statements	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
- Precautionary state	ments
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
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.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

ethylene glycol, proprietary branched polymer thickener, proprietary amino alcohol

Other hazards 2.3

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\ge 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

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Description of the mixture

Hazardous ingredients acc. to GHS						
Name of substance	Identifier	Wt%				
ethylene glycol	CAS No 107-21-1	40 - < 55				
proprietary branched polymer thickener		12-<20				
proprietary amino alcohol	CAS No trade secret	1-<5				
proprietary fatty acid	CAS No trade secret	1-<5				

Remarks

For full text of abbreviations: see SECTION 16. This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.



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SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

not required

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.



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Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
 - Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of the effects

Protect against external exposure, such as frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

					-						
Coun try	Name of agent	CAS No	lden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m³]	Nota tion	Sourc e
US	ethylene glycol	107-21-1	REL							appx- D	NIOS H REL
US	ethylene glycol	107-21-1	TLV®				10			i, aer- osol	AC- GIH® 2019
US	ethylene glycol	107-21-1	PEL (CA)					40	100	vap	Cal/ OSHA PEL
US	ethylene glycol	107-21-1	TLV®	25		50				vap	AC- GIH® 2019

Notation

aerosol	as aerosols
appx-D	see Appendix D - Substances with No Established RELs
Ceiling-C	ceiling value is a limit value above which exposure should not occur
i	inhalable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless
	otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted
	average (unless otherwise specified
vap	as vapors

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Relevant DNELs o	Relevant DNELs of components							
Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time		
ethylene glycol	107-21-1	DNEL	35 mg/m ³	human, inhalatory	worker (industry)	chronic - local ef- fects		
ethylene glycol	107-21-1	DNEL	106 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects		
proprietary amino al- cohol	trade secret	DNEL	1.8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects		
proprietary amino al- cohol	trade secret	DNEL	5.3 mg/m ³	human, inhalatory	worker (industry)	acute - systemic ef- fects		
proprietary amino al- cohol	trade secret	DNEL	1.8 mg/m ³	human, inhalatory	worker (industry)	chronic - local ef- fects		
proprietary amino al- cohol	trade secret	DNEL	14 mg/m ³	human, inhalatory	worker (industry)	acute - local effects		
proprietary amino al- cohol	trade secret	DNEL	0.25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects		
proprietary amino al- cohol	trade secret	DNEL	1.2 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic ef- fects		
proprietary amino al- cohol	trade secret	DNEL	100 µg/cm²	human, dermal	worker (industry)	acute - local effects		

Relevant PNECs of components						
Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
ethylene glycol	107-21-1	PNEC	10 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)
ethylene glycol	107-21-1	PNEC	1 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)
ethylene glycol	107-21-1	PNEC	200 ^{mg} / _l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
ethylene glycol	107-21-1	PNEC	37 ^{mg} / _{kg}	benthic organisms	sediment	short-term (single instance)
ethylene glycol	107-21-1	PNEC	3.7 ^{mg} / _{kg}	pelagic organisms	sediment	short-term (single instance)
ethylene glycol	107-21-1	PNEC	1.5 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
ethylene glycol	107-21-1	PNEC	10 ^{mg} / _l	aquatic organisms	water	intermittent release
proprietary amino al- cohol	trade secret	PNEC	0.066 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)
proprietary amino al- cohol	trade secret	PNEC	0.004 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)
proprietary amino al- cohol	trade secret	PNEC	10 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
proprietary amino al- cohol	trade secret	PNEC	0.25 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)



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Relevant PNECs of components							
Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time	
proprietary amino al- cohol	trade secret	PNEC	0.015 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)	
proprietary amino al- cohol	trade secret	PNEC	0.01 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)	
proprietary fatty acid	trade secret	PNEC	0.02 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)	
proprietary fatty acid	trade secret	PNEC	0.002 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)	
proprietary fatty acid	trade secret	PNEC	912 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)	
proprietary fatty acid	trade secret	PNEC	0.94 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)	
proprietary fatty acid	trade secret	PNEC	0.094 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)	
proprietary fatty acid	trade secret	PNEC	0.18 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)	

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance



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Physical state	liquid
Color	orange-red
Particle	not relevant (liquid)
Odor	characteristic
Other safety parameters	
pH (value)	9–10
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	>100 °C at 1,013 hPa
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	32 hPa at 25 °C
Density	9 ^{lb} / _{gal} at 68 °F
Vapor density	this information is not available
Relative density	1.1 at 68 °F (water = 1)
Solubility(ies)	
- Water solubility	miscible in any proportion
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	230 °C
Viscosity	
- Kinematic viscosity	41 – 50 cSt at 40 °C
Explosive properties	none
Oxidizing properties	none
Other information	
Temperature class (USA, acc. to NEC 500)	T2D (maximum permissible surface temperature on the equipment:

215°C)

9.2



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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components							
Name of substance CAS No Exposure route ATE							
proprietary amino alcohol	trade secret	oral	1,183 ^{mg} / _{kg}				
proprietary amino alcohol	trade secret	dermal	1,100 ^{mg} / _{kg}				
proprietary amino alcohol	trade secret	inhalation: vapor	3 ^{mg} / _l /4h				

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.



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Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of \geq 0.1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\ge 0.1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



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SECTION 14: Transport information

- 14.1 UN number
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

not subject to transport regulations

not relevant

none

not assigned

non-environmentally hazardous acc. to the dangerous goods regulations

- **14.6** Special precautions for user There is no additional information.
- **14.7 Transport in bulk according to IMO instruments** The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT)

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

 Toxic Substance Control Act (TSCA)
 all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings						
Name of substance CAS No Remarks Effective date						
ethylene glycol	107-21-1		1986-12-31			

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
ethylene glycol	107-21-1		3	5000 (2270)

Legend

"3" indicates that the source is section 112 of the Clean Air Act



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Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshol d	De Minimis Con- centration Threshold
ethylene glycol	107-21-1				1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
ethylene glycol	107-21-1	A	particulate vapor

Legend

A

American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
ethylene glycol	107-21-1		
proprietary amino alcohol	108-01-0		CO F2

Legend

CO Corrosive

F2 Flammable - Second Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
1,2-ETHANEDIOL	107-21-1	E
ETHANOL, 2-(DIMETHYLAMINO)-	108-01-0	

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
ethylene glycol	107-21-1	T, F

Legend F

Flammability (NFPA®) Toxicity (ACGIH®)



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California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals				
Name acc. to inventory	CAS No	Conc.	Remarks	Type of the toxicity
ethylene glycol (ethanediol)	107-21-1	42 wt%		developmental
diethanolamine	111-42-2	0.000003 wt%		cancer

VOC content

- Regulated Volatile Organic Compounds (VOC-EPA)	1.5 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB)	1.8 %

Industry or sector specific available guidance(s) NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	
Chronic: Flammability: Health: Personal protection: Physical hazard:	chronic hazard flammability haza health hazard personal protecti reactivity	ards ve equipment (PPE) for normal use

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories



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Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
VN	NCI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

Legend AllC

Australian Inve	entory of Industrial Chemicals	

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

Additional information

The contained substances are listed in the following national inventories: AICS (Australia) DSL/NDSL (Canada) IECSC (China) PICCS (Philippines) TCSI (Taiwan) TSCA (United States)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book"). Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
3.2		Hazardous ingredients acc. to GHS: change in the listing (table)	yes
9.1	Density: not determined	Density: 9 ^{lb/} _{gal} at 68 °F	yes
9.1	Relative density: Information on this property is not available	Relative density: 1.1 at 68 °F (water = 1)	yes
9.1	Viscosity: not determined	Viscosity	yes
9.1		Kinematic viscosity: 41 – 50 cSt at 40 °C	yes
15.1	Regulated Volatile Organic Compounds (VOC- EPA): 16 %	Regulated Volatile Organic Compounds (VOC- EPA): 1.5 %	yes
15.1	Regulated Volatile Organic Compounds (VOC-Cal ARB): 16 %	Regulated Volatile Organic Compounds (VOC-Cal ARB): 1.8 %	yes
15.1		Additional information: The contained substances are listed in the following national inventories: AICS (Australia) DSL/NDSL (Canada) IECSC (China) PICCS (Philippines) TCSI (Taiwan) TSCA (United States)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Cal ARB	California Air Resources Board
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level

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Abbr.	Descriptions of used abbreviations
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protect- ing human health and the environment
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LHS	Lower hazard substance
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H315	Causes skin irritation.
H318	Causes serious eye damage.



acc. to 29 CFR 1910.1200 App D

AchievAL FRH 46

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Code	Text
H373	May cause damage to organs through prolonged or repeated exposure.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.