

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/16/2020

Reviewed on 01/16/2020

## \* 1 Identification

- **Product identifier**
- **Trade name:** ALT Tack Resin
- **Article number:** 331-000-005U
- **Application of the substance / the mixture** Coupling agent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

ALT Global, LLC  
12 Dwight Place  
Fairfield, NJ 07004  
USA  
Tel.: +1 973-287-6158  
Fax: +1 973-287-6168  
Internet: www.altglobal.com

- **Information department:**

Division product safety  
Mr. Bonyadlou  
Tel.: +1 973-287-6158  
E-Mail: mbonyadlou@altglobal.com

- **Emergency telephone number:**

For Chemical Emergency  
Spill Leak Fire Exposure or Accident  
Call CHEMTREC Day or Night

DOMESTIC NORTH AMERICA 800-424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

butanone  
xylene  
n-butyl acetate

· **Hazard statements**

H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a poison center/doctor if you feel unwell.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 3  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



HEALTH 2 Health = 2  
FIRE 3 Fire = 3  
REACTIVITY 0 Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).
- **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 78-93-3 Index number: 606-002-00-3	butanone	≥20-≤25%
CAS: 123-86-4 Index number: 607-025-00-1	n-butyl acetate	≥10-<20%

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CAS: 1330-20-7	xylene	≥10-<20%
Index number: 601-022-00-9		

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
 Immediately remove any clothing soiled by the product.  
 Take affected persons out of danger area and lay down.  
 Medical attention is required for symptoms that are obviously due to the product's action on the skin, eyes, or inhalation of its vapors.
- **After inhalation:**  
 In case of unconsciousness place patient stably in side position for transportation.  
 Take affected persons into fresh air and keep quiet.  
 Seek medical treatment in case of complaints.
- **After skin contact:**  
 Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.  
 Remove contaminated clothing and wash before reuse.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
 Headache  
 Dizziness  
 Nausea  
 May cause drowsiness, dizziness, loss of coordination. Danger of aspiration!  
 Irritant to skin, eyes and respiratory system.
- **Indication of any immediate medical attention and special treatment needed** Symptomatic treatment.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder, foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
 Can form explosive gas-air mixtures.  
 The product floats on water and does not dissolve.  
 Formation of toxic gases is possible during heating or in case of fire.  
 In case of fire, the following can be released:  
 CO<sub>2</sub>
- **Advice for firefighters**
- **Protective equipment:**  
 Wear fully protective suit.  
 Wear self-contained respiratory protective device.
- **Additional information**  
 Cool endangered receptacles with water spray.  
 If without risk, remove containers from the danger zone.  
 Collect contaminated fire fighting water separately. It must not enter the sewage system.

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### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation



Keep away from ignition sources

Wear protective clothing.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Larger quantities: Pick up mechanically ( pump off ). Observe EX protection!

Dispose of the collected material according to regulations.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

78-93-3	butanone	200 ppm
123-86-4	n-butyl acetate	5 ppm
1330-20-7	xylene	130 ppm
112-55-0	dodecane-1-thiol	0.3 ppm

· **PAC-2:**

78-93-3	butanone	2700* ppm
123-86-4	n-butyl acetate	200 ppm
1330-20-7	xylene	920* ppm
112-55-0	dodecane-1-thiol	0.5 ppm

· **PAC-3:**

78-93-3	butanone	4000* ppm
123-86-4	n-butyl acetate	3000* ppm
1330-20-7	xylene	2500* ppm
112-55-0	dodecane-1-thiol	3 ppm

### 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Do not refill residue into storage receptacles.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

at least 7-fold air changes per hour

Keep receptacles tightly sealed.

When using do not eat, drink or smoke.

Avoid contact with eyes and skin.

Prevent formation of aerosols.

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- **Information about protection against explosions and fires:**  
 Highly volatile, flammable constituents are released during processing.  
 Keep ignition sources away - Do not smoke.  
 Fumes can combine with air to form an explosive mixture.  
 Only explosion-proof equipment.  
 Protect against electrostatic charges.  
 Protect from heat.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
 Store only in the original receptacle.  
 Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
 Store in cool, dry conditions in well sealed receptacles.  
 Storage in a collecting room is required.  
 Store under lock and key and with access restricted to technical experts or their assistants only.  
 Keep receptacle tightly sealed.  
 Protect from heat and direct sunlight.
- **Specific end use(s)** Building coating or sealing.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**78-93-3 butanone (≥20-≤25%)**

PEL	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm BEI

**123-86-4 n-butyl acetate (≥10-<20%)**

PEL	Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
REL	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
TLV	Short-term value: 712 mg/m <sup>3</sup> , 150 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm

**1330-20-7 xylene (≥10-<20%)**

PEL	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI

· **Ingredients with biological limit values:**

**78-93-3 butanone (≥20-≤25%)**

BEI	2 mg/L Medium: urine Time: end of shift Parameter: MEK
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**1330-20-7 xylene (≥10-<20%)**

BEI	1.5 g/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: Methylhippuric acids

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Avoid contact with the eyes and skin.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Keep away from foodstuffs, beverages and feed.  
 Avoid contact with the eyes.
- **Breathing equipment:**  
 Ensure good ventilation.  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
 Preventive skin protection by use of skin-protecting agents is recommended.  
 After use of gloves apply skin-cleaning agents and skin cosmetics.  
 Check protective gloves prior to each use for their proper condition.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- **Material of gloves**  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
 Our Recommendation is mainly on a one-time use as a short-term protection Liquid splashes. For other applications, you should contact a glove manufacturer.  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**  
 Butyl rubber, BR
- **For the permanent contact gloves made of the following materials are suitable:** Butyl rubber, BR
- **Not suitable are gloves made of the following materials:** Leather gloves
- **Eye protection:**



Tightly sealed goggles

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· **Body protection:**



Protective work clothing

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Fluid
· <b>Color:</b>	Yellow tint
· <b>Odor:</b>	Aromatic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	79 °C (174.2 °F) (2-Butanon (1013 hPa))

· **Flash point:** 1 °C (33.8 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 317 °C (602.6 °F) (Butylacetat)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

· <b>Lower:</b>	1.8 Vol % (2-Butanon)
· <b>Upper:</b>	11.5 Vol % (2-Butanon)

· **Vapor pressure at 20 °C (68 °F):** 105 hPa (78.8 mm Hg) (2-Butanon)

· **Density at 20 °C (68 °F):** 1 g/cm<sup>3</sup> (8.35 lbs/gal) (EN ISO 2811-1)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· <b>Dynamic at 20 °C (68 °F):</b>	225 mPas (EN ISO 2555)
· <b>Kinematic:</b>	Not determined.

· **Solvent content:**

· <b>Organic solvents:</b>	46.8 %
· <b>VOC content:</b>	46.75 %
	468.4 g/l / 3.91 lb/gal

· **Other information** No further relevant information available.

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### 10 Stability and reactivity

- **Reactivity** see Section 10.2
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
Exothermic reaction.  
Reacts with peroxides and other radical forming substances.  
A hazardous polymerization may occur after the exhaustion of the inhibitor.
- **Conditions to avoid** Avoid heat, flames and sources of ignition.
- **Incompatible materials:** Oxidizing agents, acids
- **Hazardous decomposition products:**  
No dangerous decomposition products used according to specifications.
- **Additional information:**  
Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan to the workplace may be present.

### 11 Toxicological information

- **Information on toxicological effects** There were no toxicological findings to the mixture.
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Oral	LD50	>8,202-11,599 mg/kg (rat)
Dermal	LD50	>10,059-13,370 mg/kg (rabbit)
Inhalative	LC50/4h	>29.5 mg/l (rat)

**78-93-3 butanone**

Oral	LD50	2,800-5,600 mg/kg (rat)
Dermal	LD50	5,000-13,000 mg/kg (rabbit)
	LC50	>8,000 mg/kg (cuniculus)
Inhalative	LC50/4h	34.5 mg/l (rat)

**123-86-4 n-butyl acetate**

Oral	LD50	14,000 mg/kg (rat)
Dermal	LC50	>5,000 mg/kg (hare)
Inhalative	LC50/4h	>21 mg/l (rat)

**1330-20-7 xylene**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>1,700 mg/kg (rabbit)
	LC50	>2,000 mg/kg (hare)
Inhalative	LC50/4h	5 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritability
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**  
Due to the high vapor pressure is a harmful concentration in the air quickly been reached. At high concentrations can occur narcotic effect.
- **Subacute to chronic toxicity:** not tested

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· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
 Irritant

· **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>	
1330-20-7 xylene	3
· <b>NTP (National Toxicology Program)</b>	
None of the ingredients is listed.	
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
None of the ingredients is listed.	

**12 Ecological information**

· **Toxicity**

· <b>Aquatic toxicity:</b>	
<b>78-93-3 butanone</b>	
EC50/48h	1,382 mg/l (daphnia magna)
LC50/96h	3,220 mg/l (pimephales promelas)
IC5/7d	>4,300 mg/l (Scenedesmus quadricauda)
<b>123-86-4 n-butyl acetate</b>	
LC50/48h	64 mg/l (Danio rerio) 71 mg/l (Leuciscus idus melanotus) (DIN 38412)
EC50/24h	73 mg/l (daphnia magna) (DIN 38412) Part 11
EC50/72h	674 mg/l (Scenedesmus quadricauda)
EC10/18h	959 mg/l (Pseudomonas putida) (DIN 38412) Part 8
TCLo/8d	21 mg/l (Scenedesmus quadricauda) Wachstumshemmtest
<b>1330-20-7 xylene</b>	
LC/EC/IC50	1 mg/l (aquatic organisms)
EC50/48h	1-10 mg/l (daphnia magna)
LC50/96h	2 mg/l (fish)

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

· **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).

· **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

· **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

· **Waste treatment methods**

Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, waste must be in compliance with local regulations to be removed.

· **Recommendation:**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Contaminated packaging :

Contaminated packaging must be emptied optimally; it can then be recycled after appropriate cleaning.

Packaging that cannot be cleaned must be disposed of properly.

Non-contaminated packaging can be recycled.

· **Waste disposal key:**

07 02 04

Waste from manufacture, preparation, distribution and use (MFSU) of plastics, synthetic rubber and man-made fibres - other organic solvents, washing liquids and mother liquors

Waste from manufacture, preparation, distribution and use (MFSU) of plastics, synthetic rubber and man-made fibres - other reaction and distillation residues

Please check the waste code number according to the area of origin in your company.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>	<p style="margin: 0;">UN1866</p>
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p style="margin: 0;">Resin solution 1866 RESIN SOLUTION, special provision 640D RESIN SOLUTION</p>
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>	<div style="text-align: center; margin-bottom: 10px;"> </div> <p style="margin: 0;">3 Flammable liquids 3</p>
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>	<div style="text-align: center; margin-bottom: 10px;"> </div> <p style="margin: 0;">3 (F1) Flammable liquids</p>

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· <b>Label</b>	3
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	-
· <b>EMS Number:</b>	F-E, S-E
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1866 RESIN SOLUTION, SPECIAL PROVISION 640D, 3, II

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

1330-20-7 xylene

· **TSCA (Toxic Substances Control Act):**

78-93-3	butanone	ACTIVE
123-86-4	n-butyl acetate	ACTIVE
1330-20-7	xylene	ACTIVE
112-55-0	dodecane-1-thiol	ACTIVE

· **Hazardous Air Pollutants**

1330-20-7 xylene

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· **Proposition 65**

<b>· Chemicals known to cause cancer:</b>	None of the ingredients is listed.
<b>· Chemicals known to cause reproductive toxicity for females:</b>	None of the ingredients is listed.
<b>· Chemicals known to cause reproductive toxicity for males:</b>	None of the ingredients is listed.
<b>· Chemicals known to cause developmental toxicity:</b>	None of the ingredients is listed.

· **Carcinogenicity categories**

<b>· EPA (Environmental Protection Agency)</b>		
78-93-3	butanone	I
1330-20-7	xylene	I
<b>· TLV (Threshold Limit Value established by ACGIH)</b>		
1330-20-7	xylene	A4
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
None of the ingredients is listed.		

· **National regulations:**

· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.  
 Employment restrictions concerning pregnant and lactating women must be observed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**\* 16 Other information**

These figures relate to the product as delivered.

**Sector of Use**

Relevant identified uses of the mixture

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Uses advised against**

SU21 Consumer uses: Private households / general public / consumers

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Training hints**

Teaching about hazards and precautions to hand the operating instructions (Technical Rule 555). Instruction must take place before the start of employment and at least annually thereafter.

· **Date of preparation / last revision** 01/16/2020 / 1

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
BEI: Biological Exposure Limit  
Flam. Liq. 2: Flammable liquids – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· **Sources**

[www.gestis.de](http://www.gestis.de)  
[www.echa.eu](http://www.echa.eu)  
[logkow.cisti.nrc.ca](http://logkow.cisti.nrc.ca)

· \* **Data compared to the previous version altered.**