



Plumeria Fragrance Oil

Safety Data Sheet

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Name:** Plumeria Fragrance Oil
Product Code: 303-146X
- 1.2 Intended Use:** Compound used in customer substance/mixture/product.
- 1.3 Supplier:** Majestic Mountain Sage Inc
2490 S 1350 W
Nibley, 84321 - United States of America
T 435.755.0863 - F 435.755.2108
www.TheSage.com
- 1.4 Emergency Telephone Number**
No additional information available

SECTION 2: Hazards Identification

2.1 Classification of the Substance or Mixture

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Irritation	Category 2A
Skin Sensitization	Category 1A
Reproductive Toxicity	Category 1B

2.2 GHS Label Elements, Including Precautionary Statements

Hazard Pictograms



Appearance: Clear yellow

Physical State @ 20°C: Liquid

Odor: Characteristic

Signal Word: Danger

Hazard Statements

H303	May be harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements**Prevention:**

P201	Obtain special instructions before use.
P202	Do not handle until all the safety precautions have been read and understood.
P260	Do not breath dust/fume/gas/mist/vapors/spray.
P264	Wash face, hands, and any exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P281	Use personal protective equipment as required.

Storage:

P405	Store locked up.
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Disposal:

P501	Dispose of contents/container to an approved waste disposal plant as required by local, regional, national, international laws and regulations.
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2.3 Hazards Not Otherwise Classified (HNOC) and Other Information

No data available.

SECTION 3: Composition/Information on Ingredients

3.1 Mixtures

This product is a complex mixture of ingredients, which contains among others the following substance(s), presenting a health or environmental hazard within the meaning of the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

CAS # Ingredient	Weight %	Classification (Reg. 1272/2008)	FEMA Numbers
120-51-4	>=25-100%	H302; H313; H400; H411	2138
<i>Benzyl benzoate</i>			
140-11-4	5-<10%	H303; H316; H401; H412	2135
<i>Benzyl acetate</i>			
101-86-0	5-<10%	H303; H316; H317; H400; H411	2569
<i>2-Benzylideneoctanal</i>			
78-69-3	5-<10%	H227; H315; H317; H319; H401	3060
<i>3,7-Dimethyloctan-3-ol</i>			
118-58-1	5-<10%	H303; H317; H320; H401; H412	2151
<i>Benzyl salicylate</i>			
122-40-7	1-<5%	H303; H316; H317; H401; H411	2061
<i>2-Benzylideneheptanal</i>			
105-95-3	1-<5%	H401	3543
<i>1,4-Dioxacycloheptadecane-5,17-dione</i>			
2050-08-0	1-<5%	H302; H400; H410	None
<i>Amyl salicylate</i>			
5413-60-5	1-<5%	H303; H316; H402; H412	None
<i>4,7-Methano-1H-inden-6-ol,3a,4,5,6,7,7a-hexahydro-, acetate</i>			
88-41-5	1-<5%	H227; H303; H316; H401; H411	None
<i>2-tert-Butylcyclohexyl acetate</i>			
710-04-3	1-<5%	H316	3294
<i>2H-Pyran-2-one, 6-hexyltetrahydro-</i>			

106-22-9	1-<5%	H303; H313; H315; H319; H401	2309
<i>Citronellol</i>			
17511-60-3	1-<5%	H316; H401; H411	None
<i>4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, propanoate</i>			
80-54-6	1-<5%	H227; H302; H315; H317; H360; H401; H412	None
<i>Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl-</i>			
10339-55-6	1-<5%	H227; H315; H319 ;H402	None
<i>1,6-Nonadien-3-ol, 3,7-dimethyl-</i>			
97-53-0	1-<5%	H303; H316; H317; H319; H401	2467
<i>Eugenol</i>			
87-20-7	1-<5%	H316; H401; H411	2084
<i>3-Methylbutyl salicylate</i>			
18479-58-8	1-<5%	H227; H303; H316; H319; H402	None
<i>Dihydromyrcenol</i>			
111879-80-2	0.1-1%	H316; H400; H410	None
<i>Oxacyclohexadec-12-en-2-one, (12E)-</i>			
54464-57-2	0.1-1%	H315; H317; H401; H410	None
<i>1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone</i>			
1205-17-0	0.1-1%	H303; H317; H401; H411	4599
<i>3-(1,3-Benzodioxol-5-yl)-2-methylpropanal</i>			
106-24-1	0.1-1%	H303; H315; H317; H318; H402	2507
<i>Geraniol</i>			
106-25-2	0.1-1%	H303; H315; H317; H319; H402	2770
<i>Nerol</i>			
57378-68-4	0.1-1%	H302; H315; H317; H400; H410	3622
<i>1-(2,6,6-Trimethylcyclohex-3-en-1-yl)but-2-en-1-one</i>			
93-15-2	<0.1%	H302; H351; H341; H401	None
<i>Methyl eugenol</i>			

See Section 16 for full text of GHS classification codes

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

- General Advice:** If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
- Inhalation:** Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult a physician.
- Eye Contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eyes wide open while rinsing. If symptoms persist, call a physician.
- Skin Contact:** Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash off immediately with soap and plenty of water.
- Ingestion:** Do not induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth.
- Protection of First Aiders:** Use personal protective equipment.

4.2 Most Important Symptoms/Effects, Acute and Delayed

No information available

4.3 Indication of Immediate Medical Attention and Special Treatment Needed

Notes to Physician

May cause sensitization in susceptible persons.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special Hazards Arising from the Substance or Mixture

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

Explosion Data

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

5.3 Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2 Environmental Precautions

Prevent entry into waterways, sewer, basements or confined areas. Do not flush into surface water or sanitary sewer system.

6.3 Methods and Materials for Containment and Cleaning Up

Containment: Prevent further leakage or spillage if safe to do so.

Cleaning Up: Cover liquid spill with sand, earth or other noncombustible absorbent material. Use personal protective equipment. Dam up. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment/face protection. Do not breathe dust/fume/gas/mist/vapors/spray.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children.

Incompatible Materials: None known based on information supplied.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzyl acetate 140-11-4	TWA: 10 ppm	-	-
Isoamyl acetate 123-92-2	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 525 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 1000 ppm TWA: 100 ppm TWA: 525 mg/m ³
m-Amyl acetate 628-63-7	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 525 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 1000 ppm TWA: 100 ppm TWA: 525 mg/m ³

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

8.2 Exposure Controls

Engineering Measures

Showers. Eyewash Stations. Ventilation Systems.

8.3 Individual Protection Measures/Personal Protective Equipment

Eye/Face Protection: Tightly fitting safety goggles.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Skin/Body Protection: Chemical resistant apron.

Hygiene Measures: When using do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical State @ 20°C:	Liquid
Appearance:	Clear yellow
Odor:	Characteristic
Odor Threshold:	No information available
pH:	No information available
Melting Point/Range:	No information available
Freezing Point:	No information available
Initial Boiling Point:	No information available
Boiling Point/Boiling Range:	410°F / 210°C
Flashpoint:	210°F / 99°C
Evaporation Rate VALUE:	No information available
Flammability Limits in Air:	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Vapor Pressure (mmHg @ 20C):	0.116
Vapor Density:	No information available
Specific Gravity:	1.0220
Water Solubility:	Insoluble in water
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity, Dynamic:	No information available
Molecular Weight:	No information available
VOC Content:	No information available

SECTION 10: Stability and Reactivity

10.1 Reactivity

Exothermic reaction.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

None under normal processing.

10.4 Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible Materials

None known based on information supplied.

10.6 Hazardous Decomposition Products

None known based on information supplied.

SECTION 11: Toxicological Information

11.1 Information on Likely Routes of Exposure

Product Information: Product does not present an acute toxicity hazard based on known information.

Inhalation: There is no data available for this product.

Eye Contact: There is no data available for this product.

Skin Contact: There is no data available for this product.

Ingestion: There is no data available for this product.

Toxicity Data for the Components:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzyl benzoate 120-51-4	1500 mg/kg	4000 mg/kg	-
Benzyl acetate 140-11-4	2490 mg/kg	5 g/kg	-

2-Benzylideneoctanal 101-86-0	3100 mg/kg	3000 mg/kg	-
3,7-Dimethyloctan-3- ol 78-69-3	5 g/kg (Rat) 5440.5 mg/kg (Rat) 4590 mg/kg (Rat) 3000 mg/kg (Rat) 10000 mg/kg (Rat) 2979 mg/kg (Rat) 5000 mg/kg (Rat) 8300 mg/kg (Rat) 2980 mg/kg (Rat) 4720 mg/kg (Rat)	5 g/kg (Rabbit) 2650 mg/kg (Rabbit) 2530 mg/kg (Rabbit) 2960 mg/kg (Rabbit) 11300 mg/kg (Rabbit) 2250 mg/kg (Rabbit) 1600 mg/kg (Rat) 631 mg/kg (Rabbit) 2600 mg/kg (Rabbit)	0.237 mg/L (Rat) 4 h
Benzyl salicylate 118-58-1	2200 mg/kg	14150 mg/kg	-
2- Benzylideneheptanal 122-40-7	3730 mg/kg	-	-
Amyl salicylate 2050-08-0	2500 mg/kg	-	-
4,7-Methano-1H,- inden-6-ol, 3a,4,5,6,7,7a- hexahydro-, acetate 5413-60-5	3000 mg/kg	-	-
2-tert-Butylcyclohexyl acetate 88-41-5	4600 mg/kg	5 g/kg	-
Citronellol 106-22-9	3450 mg/kg	2650 mg/kg	-
4,7-Methano-1H- inden-6-ol, 3a,4,5,6,7,7a- hexahydro-, propanoate 17511-60-3	5 g/kg	5 g/kg	-
Benzenepropanal, 4- (1, 1-dimethylethyl)- .alpha.-methyl- 80-54-6	1390 mg/kg	2000 mg/kg	-
Eugenol 97-53-0	2300 mg/kg	-	-

3-Methylbutyl salicylate 87-20-7	3300 mg/kg (Rat)	-	-
Dihydromyrcenol 18479-58-8	3600 mg/kg	5 g/kg	-
3-(1,3-Benzodioxol-5-yl)-2-methylpropanal 1205-17-0	3550 mg/kg	-	-
Geraniol 106-24-1	4200 mg/kg	5 g/kg	-
Nerol 106-25-2	4500 mg/kg	5 g/kg (Rabbit)	-
1-(2,6,6-Trimethylcyclohex-3-en-1-yl)but-2-en-1-one 57378-68-4	1600 mg/kg	-	-
Methyl eugenol 93-15-2	810 mg/kg	2025 mg/kg	-

11.2 Information on Toxicological Effects

Symptoms: No information available

11.3 Delayed and Immediate Effects as Well as Chronic Effects from Short and Long-term Exposure

Sensitization: No information available

Germ Cell Mutagenicity: No information available

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl eugenol 93-15-2	-	2B	Reasonably Anticipated	-

IARC: (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Reproductive Toxicity:	No information available
Specific Target Organ Toxicity Single Exposure:	No information available
Specific Target Organ Toxicity Repeated Exposure:	No information available
Chronic Toxicity:	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Aspiration Hazard:	No information available

11.4 Numerical Measure of Toxicity - Product Information

The following values are calculated based on Chapter 3.1 of the GHS Document.

ATEmix (Oral)	2327 mg/kg
ATEmix (Dermal)	6626 mg/kg
ATEmix (Inhalation-dust/mist)	610.2 mg/l

SECTION 12: Ecological Information**12.1 Ecotoxicity**

4.501% of this mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
3, 7-Dimethyloctan-3-ol 78-69-3	EC50: 19 mg/L EC50: 6.2 mg/L EC50: 2.7 mg/L	LC50: 5.7 mg/L LC50: 5000 mg/L LC50: 4.78-8.85 mg/L LC50: 3.6-5.1 mg/L LC50: 1.04 mg/L LC50: 13 mg/L LC50: 8.37 mg/L LC50: 10 mg/L LC50: 0.6 mg/L	EC50: 3 mg/L EC50: 320 mg/L EC50: 8.5 mg/L LC50: 6.2 mg/L LC50: 3.4 mg/L EC50: 4.78-8.87 mg/L

Citronellol 106-22-9	-	LC50: 10-22 mg/L	EC50: 17 mg/L
Benzenepropanal, 4-(1, 1- dimethylethyl)- .alpha.-methyl- 80-54-6	-	LC50: 2.2-4.6 mg/L	EC50: 10.7 mg/L
2-Phenylethanol 60-12-8	EC50: 490 mg/L	LC50: 220-460 mg/L	EC50: 287.72 mg/L
2-Propanol, 1,1'- oxybis- 110-98-5	-	LC50: 5000 mg/L	-
Ethyl 3- oxobutanoate 141-97-9	EC50: 500 mg/L	LC50: 307 mg/L LC50: 290 mg/L LC50: 298 mg/L	EC50: 790 mg/L EC50: 646 mg/L
n-Amyl acetate 628-63-7	-	LC50: 650 mg/L	-

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulative Potential

No data available

Chemical Name	log Pow
Benzyl acetate 140-11-4	1.96
3-Octanol, 3-7-dimethyl- 78-69-3	3.9
Citronellol 106-22-9	3.41
Benzenepropanal, 4-(1, 1-dimethylethyl)-.alpha.-methyl- 80-54-6	4.2

12.4 Other Adverse Effects

No data available

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Waste Disposal Methods

Dispose of in accordance with local, regional, national, and international regulations.

Contaminated Packaging

Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

SECTION 14: Transport Information

14.1 Transport Information

DOT

Bulk Packaging

Not regulated

Reportable Quantity (RQ)

Please refer to Appendix A to 49 CFR 172.101
- List of Hazardous Substances and
Reportable Quantities

DOT

Non-Bulk Packaging

Not regulated

Reportable Quantity (RQ)

Please refer to Appendix A to 49 CFR 172.101
- List of Hazardous Substances and
Reportable Quantities

IMDG/IMO

UN Number

3082

Proper Shipping Name

Environmentally hazardous substance, liquid,
n.o.s. (Benzyl benzoate)

Hazard Classification

9

Packaging Group

III

Marine Pollutant

This product contains a chemical which is
listed as a marine pollutant according to
IMDG/IMO

Reportable Quantity

Please refer to Appendix A to 49 CFR 172.101
- List of Hazardous Substances and
Reportable Quantities

MEX (SCT)

UN Number 3082
Proper Shipping Name Environmentally hazardous substance, liquid,
n.o.s. (Benzyl benzoate)
Hazard Classification 9
Packaging Group III
Reportable Quantity Please refer to Appendix A to 49 CFR 172.101
- List of Hazardous Substances and
Reportable Quantities

ICAO/IATA

UN Number 3082
Proper Shipping Name Environmentally hazardous substance, liquid,
n.o.s. (Benzyl benzoate)
Hazard Classification 9
Packaging Group III
Reportable Quantity Please refer to Appendix A to 49 CFR 172.101
- List of Hazardous Substances and
Reportable Quantities

TDG

UN Number 3082
Proper Shipping Name Environmentally hazardous substance, liquid,
n.o.s. (Benzyl benzoate)
Hazard Classification 9
Packaging Group III
Reportable Quantity Please refer to Appendix A to 49 CFR 172.101
- List of Hazardous Substances and
Reportable Quantities

RID

UN Number 3082
Proper Shipping Name Environmentally hazardous substance, liquid,
n.o.s. (Benzyl benzoate)
Hazard Classification 9
Packaging Group III

ADR/RID

UN Number 3082
Proper Shipping Name Environmentally hazardous substance, liquid,
n.o.s. (Benzyl benzoate)
Hazard Classification 9
Packaging Group III

SECTION 15: Regulatory Information

15.1 International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	-
ENCS	Not determined
IECSC	Not determined
KECL	Not determined
PICCS	Not determined
AICS	Not determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing And Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2 U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendment and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.3 U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 Chemicals:

Chemical Name	California Prop 65.
Methyl eugenol 93-15-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Benzyl acetate 140-11-4	X	-	-
Isoamyl acetate 123-92-2	X	X	X
n-Amyl acetate 628-63-7	X	X	X
Methyl eugenol 93-15-2	X	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

SECTION 16: Other Information

16.1 GHS H-Statements Referred to Under Section 3

- | | |
|---|-------------------------------------|
| H227: Combustible Liquid | H316: Causes mild skin irritation |
| H302: Harmful if swallowed | H317: May cause an allergic skin |
| H303: May be harmful if swallowed | H318: Causes serious eye damage |
| H313: May be harmful in contact with skin | reaction |
| H315: Causes skin irritation | H319: Causes serious eye irritation |
| | H320: Causes eye irritation |

H361: Suspected of damaging fertility
H371: May cause damage to organs
or the unborn child.
H402: Harmful to aquatic life
H411: Toxic to aquatic life with long
lasting effects

H400: Very toxic to aquatic life
H401: Toxic to aquatic life
H410: Very toxic to aquatic life with long
lasting effects
H412: Harmful to aquatic life with
long lasting effects

16.2 NFPA Rating

Health Hazard: 2 **Flammability:** 1 **Instability:** 0

Physical and Chemical Hazards: -

16.3 HMIS Rating

Health Hazard: 2 **Flammability:** 1 **Physical Hazard:** 0

Personal Protection: X

Notes:

This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.