

SAFETY DATA SHEET

AESUB green

SECTION 1: Identification

1.1. Product identifier

Trade name

AESUB green

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

Relevant identified uses of the substance or mixture

Laboratory use, Paint

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Scanningspray Vertriebs GmbH

Johann-Strauss-Str. 13

45657 Recklinghausen

Germany

+49 (0)2361 8903 357

info@aesub.com

Contact person

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E-mail

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SDS date

2/9/2024

SDS Version

1.0

1.4. Emergency telephone number

US Chemtrec: +1 800 424-9300 (24h)

CHEMTREC: +1 703 527-3887 (24h) Transport

(CCN 994267 / WISAG FMO Cargo Service GmbH & Co. KG);

SECTION 2: Hazard(s) identification

OSHA/HCS status

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

2.1. Classification of the substance or mixture

Flam. Liq. 2; H225, Highly flammable liquid and vapour.

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315, Causes skin irritation.

Eye Irrit. 2; H319, Causes serious eye irritation.

STOT SE 3; H336, May cause drowsiness or dizziness.

Repr. 2; H361f, Suspected of damaging fertility.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Highly flammable liquid and vapour. (H225)
 May be fatal if swallowed and enters airways. (H304)
 Causes skin irritation. (H315)
 Causes serious eye irritation. (H319)
 May cause drowsiness or dizziness. (H336)
 Suspected of damaging fertility. (H361f)

Precautionary statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)
 Keep out of reach of children. (P102)

Prevention

Obtain special instructions before use. (P201)
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
 Keep container tightly closed. (P233)
 Avoid breathing mist/vapour. (P261)
 Wash hands thoroughly after handling. (P264)
 Use only outdoors or in a well-ventilated area. (P271)
 Wear face protection/protective gloves/protective clothing. (P280)

Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
 IF exposed or concerned: Get medical advice/attention. (P308+P313)
 Call a POISON CENTER/doctor if you feel unwell. (P312)
 Do NOT induce vomiting. (P331)
 If eye irritation persists: Get medical advice/attention. (P337+P313)
 In case of fire: Use water mist/carbon dioxide/alcohol-resistant foam to extinguish. (P370+P378)

Storage

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)
 Store in a well-ventilated place. Keep cool. (P403+P235)
 Store locked up. (P405)

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Additional labelling

Not applicable.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
ethanol;ethyl alcohol	CAS No.: 64-17-5	25-40%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 (SCL: 50.00 %)	
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	CAS No.:	10-15%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	CAS No.:	10-15%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336	
Hydrocarbons, C6, isoalkanes, <5% n-hexane	CAS No.: 64742-49-0	10-15%	Flam. Liq. 2, H225 Asp. Tox. 1, H304	[19]

			Skin Irrit. 2, H315 STOT SE 3, H336	
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	CAS No.: 64742-49-0	10-15%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336	[19]
propan-2-ol;isopropyl alcohol;isopropanol	CAS No.: 67-63-0	10-15%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Tricyclo[3.3.1.1 ^{3,7}]decane	CAS No.: 281-23-2	5-10%		
n-hexane	CAS No.: 110-54-3	<1%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361f (SCL: 0.20 %) STOT RE 1, H372	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4: First-aid measures

4.1. Description of first aid measures

General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin,

sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating] equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Because of the danger of self-ignition, any waste from the product, spray mist and soiled rags etc. are to be kept in a fire-proof place in air-tight containers, alternatively the waste is to be burned.

The product should be tested for peroxides before distillation or evaporation and tested for peroxide formation or discarded after 1 year.

The product should be tested for peroxide formation before using or discarded after 3 months.

Avoid direct contact with the product.

Peroxide formation may be present anywhere in the container, including the sides, bottom, exterior and threaded cap. Peroxide formation in ppm concentrations may not be visually observable and must be identified through the use of appropriate testing procedures. If any of the following conditions exist, the material may be explosively unstable and will require stabilization prior to use:

1. Material appears to be degraded and or contaminated.
2. Material appears to be discolored.
3. Deterioration or distortion of storage container.
4. Thermal shock (sunlight).
5. Age of material exceeds recommended storage time.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Recommended storage material

Keep only in original packaging.

Storage temperature

< 50°C

Incompatible materials

Strong oxidizing agents

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanol;ethyl alcohol

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 1000

Long term exposure limit (OSHA Table Z-1) (mg/m³): 1900

Long term exposure limit (OSHA Table Z-1) (ppm): 1000

propan-2-ol;isopropyl alcohol;isopropanol

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 400

Short term exposure limit (STEL) (NIOSH REL) (ppm): 500

Long term exposure limit (OSHA Table Z-1) (mg/m³): 980

Long term exposure limit (OSHA Table Z-1) (ppm): 400

Long term exposure limit (ACGIH TLV) (ppm): 200

n-hexane

Long term exposure limit (OSHA Table Z-1) (mg/m³): 1800

Long term exposure limit (OSHA Table Z-1) (ppm): 500

Long term exposure limit (ACGIH TLV) (ppm): 50

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and

emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment

Type	Class	Colour	Standards	
AX		Brown	EN14387	

Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,7	> 240	EN374-2, EN374-3, EN388, EN421	

Eye protection

Type	Standards	
Face shield alternatively safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless

Odour

Characteristic

Odour threshold (ppm)

Testing not relevant or not possible due to the nature of the product.

pH

Testing not relevant or not possible due to the nature of the product.

Density (g/cm³)

Testing not relevant or not possible due to the nature of the product.

Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

Phase changes

Melting point (°F)

Testing not relevant or not possible due to the nature of the product.

Softening point/range (waxes and pastes) (°F)

Does not apply to liquids.

Boiling point (°F)

Testing not relevant or not possible due to the nature of the product.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°F)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°F)

-

Flash point (°C)

-20 °C bei 101,3 kPa

Flammability (°F)

The material is ignitable.

Flammability (°C)

225

Auto-ignition temperature (°F)

Testing not relevant or not possible due to the nature of the product.

Explosion limits (% v/v)

0,6 - 13,5

Solubility

Solubility in water

Testing not relevant or not possible due to the nature of the product.

n-octanol/water coefficient (LogKow)

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Other physical and chemical parameters

No data available.

Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid static electricity.

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product/substance	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 5000 mg/kg

Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane OECD 403 Rat Inhalation LC50 > 20 mg/L
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane OECD 402 Rabbit Dermal LD50 > 2000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane OECD 401 Rat Oral LD50 >5000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane OECD 403 Rat Inhalation LC50 >20 mg/L
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane OECD 402 Rat Dermal LD50 >2000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6, isoalkanes, <5% n-hexane OECD 401 Rat Oral LD50 5000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6, isoalkanes, <5% n-hexane OECD 403 Rat Inhalation LC50 (4 hours) 20 mg/L
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C6, isoalkanes, <5% n-hexane OECD 402 Rat Dermal LC50 3000 mg/kg
Product/substance Test method: Species: Route of exposure: Test: Result:	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics OECD 401 Rat Oral LD50 5840 mg/kg
Product/substance Test method:	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics OECD 403

Species: Rat
 Route of exposure: Inhalation
 Test: LC50
 Result: 23,3 mg/L

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Test method: OECD 402
 Species: Rat
 Route of exposure: Dermal
 Test: LD50
 Result: 2920 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

Suspected of damaging fertility.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.

Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system.

Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Other information

propan-2-ol;isopropyl alcohol;isopropanol has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 Species: Fish, Oncorhynchus mykiss
 Duration: 96 hours
 Test: LL50
 Result: 12 mg/L

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 Species: Fish, Daphnia magna
 Duration: 48 hours
 Test: EL50
 Result: 3 mg/L

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 Species: Algae, Pseudokirchneriella subcapitata
 Duration: 72 hours
 Test: ErL50

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

Result:	55 mg/L
Product/substance	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
Species:	Algae, Pseudokirchneriella subcapitata
Duration:	72 hours
Test:	NOELR
Result:	30 mg/L
Product/substance	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LL50
Result:	11,4 mg/L
Product/substance	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Test method:	OECD 202
Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	EL50
Result:	3 mg/L
Product/substance	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Test method:	OECD 201
Species:	Algae, Pseudokirchneriella subcapitata
Duration:	72 hours
Test:	EL50
Result:	30 mg/L
Product/substance	Hydrocarbons, C6, isoalkanes, <5% n-hexane
Species:	Fish, Oryzias latipes
Duration:	48 hours
Test:	LC50
Result:	1 mg/L
Product/substance	Hydrocarbons, C6, isoalkanes, <5% n-hexane
Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	LC50
Result:	3,87 mg/L
Product/substance	Hydrocarbons, C6, isoalkanes, <5% n-hexane
Species:	Algae, Pseudokirchneriella subcapitata
Duration:	72 hours
Test:	ErL50
Result:	55 mg/L
Product/substance	Hydrocarbons, C6, isoalkanes, <5% n-hexane
Species:	Algae, Pseudokirchneriella subcapitata
Duration:	72 hours
Test:	NOELR
Result:	30 mg/L
Product/substance	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LL50
Result:	13,4 mg/L
Product/substance	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	EL50
Result:	3 mg/L

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Species: Algae, Pseudokirchneriella subcapitata
 Duration: 72 hours
 Test: NOELR
 Result: 10 mg/L

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Species: Algae, Pseudokirchneriella subcapitata
 Duration: 72 hours
 Test: EL50
 Result: 10-30 mg/L

Product/substance: propan-2-ol;isopropyl alcohol;isopropanol
 Species: Fish
 Duration: 96 hours
 Test: LC50
 Result: 10000 mg/L

Product/substance: propan-2-ol;isopropyl alcohol;isopropanol
 Species: Crustacean
 Duration: 24 hours
 Test: LC50
 Result: 10000 mg/L

Product/substance: n-hexane
 Species: Fish
 Duration: 96 hours
 Test: LL50
 Result: 12,51 mg/L

Product/substance: n-hexane
 Species: Crustacean
 Duration: 48 hours
 Test: EL50
 Result: 21,85 mg/L

12.2. Persistence and degradability

Product/substance: ethanol;ethyl alcohol
 Result: 69% 5d
 Conclusion: Readily biodegradable

Product/substance: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
 Result: 98% (28d)
 Conclusion: Readily biodegradable

Product/substance: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
 Result: 81% (28d)
 Conclusion: Readily biodegradable

Product/substance: Hydrocarbons, C6, isoalkanes, <5% n-hexane
 Result: 98% (28 d)
 Conclusion: Readily biodegradable
 Test: OECD 301 F

Product/substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Result: 98% (28d)
 Conclusion: Readily biodegradable

12.3. Bioaccumulative potential

Product/substance: ethanol;ethyl alcohol
 LogKow: -0,77
 Conclusion: No potential for bioaccumulation

Product/substance: Hydrocarbons, C6, isoalkanes, <5% n-hexane

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

BCF: 501,2
 LogKow: 3,6 (pH: 7, 20 °C)
 Conclusion: -

Product/substance Tricyclo[3.3.1.1.13,7]decane
 LogKow: 4,24
 Conclusion: -

Product/substance n-hexane
 BCF: 501,2
 LogKow: 4 (pH: 7, 20 °C)
 Conclusion: -

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
DOT	UN1263	PAINT RELATED MATERIAL	Transport hazard class: 3 Label: 3 Classification code: F1 	II	No	Limited quantities: 5 L Tunnel restriction code: (D/E) See below for additional information.
IMDG	UN1263	PAINT RELATED MATERIAL	Transport hazard class: 3 Label: 3 Classification code: F1 	II	No	Limited quantities: 5 L EmS: F-E S-E See below for additional information.
IATA	UN1263	PAINT RELATED MATERIAL	Transport hazard class: 3 Label: 3 Classification code: F1 	II	No	See below for additional information.

* Packing group

** Environmental hazards

[Additional information](#)

DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

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

No data available.

SECTION 15: Regulatory information

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

15.2. U.S. Federal regulations

TSCA (the non-confidential portion)

- ethanol;ethyl alcohol is listed
- Hydrocarbons, C6, isoalkanes, <5% n-hexane is listed
- Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics is listed
- propan-2-ol;isopropyl alcohol;isopropanol is listed
- Tricyclo[3.3.1.1^{3,7}]decane is listed
- n-hexane is listed

Clean Air Act

- n-hexane is regulated as a hazardous air pollutant (HAPS)

EPCRA Section 302

- None of the components are listed

EPCRA Section 304

- None of the components are listed

EPCRA section 313

- propan-2-ol;isopropyl alcohol;isopropanol is listed
- n-hexane is listed

CERCLA

- n-hexane is regulated with a Reportable Quantity (RQ) of: 5000 pounds

State regulations

California / Prop. 65

- n-hexane is known to cause: Male Reproductive Toxicity
- NSRL/MADL (µg/day): 28,000 (oral) / 20,000 (inhalation)

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Massachusetts / Right To Know Act

- ethanol;ethyl alcohol is listed
- propan-2-ol;isopropyl alcohol;isopropanol is listed
- n-hexane is listed

New Jersey / Right To Know Act

- ethanol;ethyl alcohol / Substance number: 0844
- ethanol;ethyl alcohol is on the Special Health Hazard Substance List
-
- propan-2-ol;isopropyl alcohol;isopropanol / Substance number: 1076
- propan-2-ol;isopropyl alcohol;isopropanol is on the Special Health Hazard Substance List
-
- n-hexane / Substance number: 1340
- n-hexane is on the Special Health Hazard Substance List

New York / Right To Know Act

- ethanol;ethyl alcohol is listed
- ethanol;ethyl alcohol is regulated with a Treshold Reporting Quantity (TRQ) of: 0 pounds
-
- propan-2-ol;isopropyl alcohol;isopropanol is listed
- propan-2-ol;isopropyl alcohol;isopropanol is regulated with a Treshold Reporting Quantity (TRQ) of: 0 pounds
-

n-hexane is listed
 n-hexane is regulated with a Reportable Quantity (RQ) of: 1 pounds
 n-hexane is regulated with a Treshold Reporting Quantity (TRQ) of: 10 pounds

—
[Pennsylvania / Right To Know Act](#)

ethanol;ethyl alcohol is listed

—
 propan-2-ol;isopropyl alcohol;isopropanol is listed
 propan-2-ol;isopropyl alcohol;isopropanol is hazardous to the environment (E)

—
 n-hexane is listed

—
[15.4. Restrictions for application](#)

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

[15.5. Demands for specific education](#)

No specific requirements.

[15.6. Additional information](#)

If this product is sold in retail, it must be delivered with child-resistant fastening.

[15.7. Chemical safety assessment](#)

No

[15.8. Sources](#)

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: Other information

[Full text of H-phrases as mentioned in section 3](#)

H225, Highly flammable liquid and vapour.
 H304, May be fatal if swallowed and enters airways.
 H315, Causes skin irritation.
 H319, Causes serious eye irritation.
 H336, May cause drowsiness or dizziness.
 H361f, Suspected of damaging fertility.
 H372, Causes damage to organs through prolonged or repeated exposure.

[The full text of identified uses as mentioned in section 1](#)

None known.

[Abbreviations and acronyms](#)

ACGIH = American Conference of Governmental Industrial Hygienists
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 CAS = Chemical Abstracts Service
 CERCLA = Comprehensive Environmental Response Compensation and Liability Act
 DOT = Department of Transportation
 EINECS = European Inventory of Existing Commercial chemical Substances
 EPCRA = Emergency Planning and Community Right-To-Know Act
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 HCIS = Hazardous Chemical Information System
 HNOC = Hazards Not Otherwise Classified
 IARC = International Agency for Research on Cancer
 IATA = International Air Transport Association
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 NFPA = National Fire Protection Association
 NIOSH = National Institute for Occupational Safety and Health
 OECD = Organisation for Economic Co-operation and Development
 OSHA = Occupational Safety and Health Administration
 PBT = Persistent, Bioaccumulative and Toxic
 RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

The classification of the mixture in regard to physical hazards has been based on experimental data.

The safety data sheet is validated by

Max Liese

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en