Advanced
Construction
Technologies

Alchatek

SAFETY DATA

Alchatek Soak 130

Revision Date: 8-26-25
Version 5

Alchatek Soak 130

SECTION 1: Identification

Product identifier

Product Name	ALCHATEK SOAK 130
Part Number(s)	130M001, 130M005
Product form	Liquid
Product code	Solvent
Formula	C5H9NO

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

Use of the substance/mixture	Solvent Chemical raw material Industrial Use

Manufacturer/Importer/Supplier/Distributor Information

Name	Alchatek
Address	4508 Bibb Blvd Tucker, GA 30084
Telephone	(404) 618-0438

Emergency Phone Numbers

Call CHEMTREC Day or Night
1-800-424-9300
+1 703-527-3887

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4	H227 - Combustible liquid
Skin Irrit. 2	H315 - Causes skin irritation
Eye Irrit. 2A	H319 - Causes serious eye irritation
Repr. 1B	H360 - May damage fertility or the unborn child
STOT SE 3	H335 - May cause respiratory irritation

Full text of H-phrases: see section 16

Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

GHS07 GHS08

Signal word (GHS-US) **DANGER**

Hazard statements (GHS-US)

H227 - Combustible liquid
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H360 - May damage fertility or the unborn child

Precautionary statements (GHS-US)

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P261 - Avoid breathing dust, fume, gas, mist, spray, vapors
P264 - Wash Skin thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention

P332+P313 - If skin irritation occurs: Get medical advice/attention

P337+P313 - If eye irritation persists: Get medical advice/attention

P362+P364 - Take off contaminated clothing and wash it before reuse

P370+P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

Other hazards

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Substance

Name	Product identifier	%	GHS-US classification
1-Methyl-2-Pyrrolidinone (Main constituent)	(CAS No) 872-50-4	90-99	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1B, H360 STOT SE 3, H335
Trade secret	*	<5	N/A

Full text of H-phrases: see section 16

Mixture

Trade secret

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after inhalation	Remove to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen provided a qualified individual is present. Get immediate medical assistance.
First-aid measures after skin contact	Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse or discard if they cannot be thoroughly cleaned. Get medical attention if irritation develops or persists.
First-aid measures after eye contact	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
First-aid measures after ingestion	Do NOT induce vomiting. If conscious, give one 8 ounce glass of water to dilute. Never give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically and supportively.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Unsuitable extinguishing media	Solid water jet ineffective as extinguishing medium.

Special hazards arising from the substance or mixture

Fire hazard	Vapors can form explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Fine sprays or mists may be combustible at temperatures below the flashpoint. Flammable in presence of open flames, sparks and static discharge. Slightly explosive in presence of open flames, sparks, and static discharge.

Advice for firefighters

Firefighting instructions	Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.
Protection during firefighting	Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Emergency procedures	Evacuate the area of all non emergency personnel. Fight fire from upwind and cool exposed intact containers and structures with water spray or stream at maximum range.
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

Methods and material for containment and cleaning up

For containment	Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill.
Methods for cleaning up	Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.
Other information	Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 8: "Exposure-controls/personal protection".

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling	Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle and open the container with care. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep away from naked flames/ heat. Use earthed equipment. At temperature > flashpoint: use spark-/ explosion-proof appliances. Finely divided: spark- and explosion-proof appliances. Finely divided: keep away from ignition sources/sparks. Observe strict hygiene. Keep container tightly closed. Before use: check for peroxides and eliminate them. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
Hygiene measures	Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions	Store tightly closed in the upright position, in a cool, dry area away from oxidizers, reducers, and excessive heat. Keep away from sources of ignition. Store under a nitrogen blanket. Protect containers from physical damage. Empty containers retain product residues and are hazardous.

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

Exposure controls

Appropriate engineering controls	Use explosion-proof ventilation equipment. Provide ventilation or other engineering controls to keep the airborne concentration of vapor or mists below the applicable workplace exposure limits indicated above. The level of protection and types of controls will vary depending upon potential exposure conditions. Eyewash station and shower in close proximity to use are advised.
Hand protection	If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

Eye protection	Face shield. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.
Skin and body protection	Protective clothing.
Respiratory protection	Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.
Environmental exposure controls	Avoid release to the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Color	Colorless to light yellow
Odor	Mild amine-like odor
Odor threshold	No data available
pH	8 - 10 (10 %)
Melting point/ Freezing point	-24 °C (-11.2 °F)
Boiling point	204 °C (395.6 °F)
Flash point	91 °C (195.8 °F)
Relative evaporation rate (butyl acetate=1)	0.03
Flammability (solid, gas)	No data available
Explosion limits	1.3 - 9.5 vol % 58 - 420 g/m³
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	0.32 hPa (20 °C)
Vapor pressure at 50 °C	< 10 hPa (50 °C)
Relative density	1.0 (25 °C)
Relative vapor density at 20 °C	3.42

Specific gravity / density	1025-1035,25 °C
Molecular mass	99.13 g/mol
Solubility	Soluble in water. Water: 100 g/100ml (20 °C, soluble)
Log Pow	-0.73 - -0.46 (Experimental value; Experimental value; OECD 107: Partition Coefficient (n- octanol/water): Shake Flask Method)
Auto-ignition temperature	245 °C (473 °F)
Decomposition temperature	> 300 °C
Viscosity	No data available
Viscosity, kinematic	1.7 mm^2/s (25 °C)
Viscosity, dynamic	1.66 mPa.s (25 °C)

Other information

Specific conductivity	2 µS/m
Saturation concentration	1.2 g/m^3
VOC content	100 %
Other properties	Gas/vapour heavier than air at 20°C. Clear. Hygroscopic. Slightly volatile. Substance has basic reaction.

SECTION 10: Stability and reactivity

Reactivity
Stable under recommended storage conditions.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

Conditions to avoid
In contact with moisture, this hygroscopic (i.e., absorbs water from the air) material may degrade or become contaminated. Heat, sparks, open flame, other ignition sources, and oxidizing conditions.

Incompatible materials
Strong oxidizing agents. Strong reducing agent. Moisture and humidity.

Hazardous decomposition products
No additional information available

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity: Not classified

NMP (1-Methyl-2-Pyrrolidinone) (872-50-4)	
LD50 oral rat	3914 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 4150 mg/kg bodyweight; Rat; Experimental value)
ATE US (oral)	3914.000 mg/kg body weight

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified
Symptoms/injuries after inhalation	Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Dry/sore throat. Coughing.
Symptoms/injuries after skin contact	Tingling/irritation of the skin.
Symptoms/injuries after eye contact	Irritation of the eye tissue.
Symptoms/injuries after ingestion	Nausea. Vomiting. Irritation of the gastric/intestinal mucosa.
Chronic symptoms	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Swelling of the skin. Tingling/irritation of the skin.

SECTION 12: Ecological information

Toxicity

Ecology - water: Acute toxicity to fish is very low.

NMP (1-Methyl-2-Pyrrolidinone) (872-50-4)	
LC50 fish 1	3048 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	4897 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 1	> 500 mg/l (EC50)
Threshold limit algae 2	600.5 mg/l (EC50; DIN 38412-9; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)

Persistence and degradability

CAS (872-50-4)	
Persistence and degradability	Readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil. Highly mobile in soil. Photo degradation in the air.
Biochemical oxygen demand (BOD)	1.07 g O_2/g substance
Chemical oxygen demand (COD)	1.56 g O_2/g substance
ThOD	1.9 g O_2/g substance
BOD (% of ThOD)	0.56

Bioaccumulative potential

CAS (872-50-4)	
Log Pow	-0.73 - -0.46 (Experimental value; Experimental value; OECD 107: Partition Coefficient (n- octanol/water): Shake Flask Method)
Bioaccumulative potential	Not bioaccumulative.

Mobility in soil

CAS (872-50-4)	
Surface tension	0.407 N/m
Log Koc	Koc,20.94; Calculated value; log Koc; 1.32; Calculated value

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

Waste disposal recommendations: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description	Bulk Only - NA 1993 Combustible Liquid N.O.S. (N-Methyl-2-Pyrrolidone) III Not Regulated – Classified as combustible liquid in containers greater than 119 gallons
UN-No.(DOT)	Bulk Only – NA 1993 Combustible Liquid N.O.S. (N-Methyl-2-Pyrrolidone) III
Proper Shipping Name (DOT)	Not Regulated – Classified as combustible liquid in containers greater than 119 gallons
Other information	No supplementary information available.

TDG
No additional information available

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

US Federal regulations

CAS (872-50-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not Listed on SARA Section 313 (Specific toxic chemical listings)
SARA 311/312: Based upon available information, this material is classified as the following health and/ or physical hazards. Immediate (acute) / Fire Hazard

International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

National regulations
No additional information available

US State regulations

CAS (872-50-4)	
No significance risk level (NSRL)	3200
State or local regulations	U.S. - New Jersey - Right to Know Hazardous Substance List

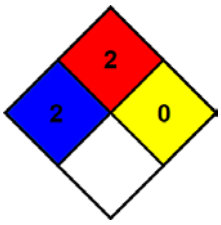
WARNING: This product can expose you to N Methyl Pyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Full text of H-phrases

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Repr. 1B	Reproductive toxicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child

NFPA health hazard	2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



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