



WA-SOL Activator

SECTION 1: Identification of the substance/mixture and of the company/supplier

1.1. Product identifier

Product Name : WA-SOL Activator (Code S 300)

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

Product use: Reagent for Mineral Oil Testkits

1.3. Details of the supplier of the safety data sheet

Company: Vecom Marine B.V.
Mozartlaan 3
3144 NA Maassluis
The Netherlands

Phone : + 31 (0)10 5930 210
Email : sales@vecom-marine.com

1.4. Emergency telephone number

Emergency : +49 178 433 74 34

Contact: CONSULTANK Lutz Harder

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Acc. to Regulation (EC) 1272/2008	
Hazard class / Hazard category	Hazard statements
Aspiration, category 1	H304

2.2. Label elements

Acc. to Regulation (EC) 1272/2008

Pictograms



GHS08
Health hazard

Signal word: Danger

H statements

H304 May be fatal if swallowed and enters airways.
EUH066 Repeated exposure may cause skin dryness or cracking.

P statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container to authorized waste disposal plant.

2.3. Other hazards

Results of PBT and vPvB evaluation see chapter 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substances

This product is a mixture.

3.2. Mixtures

Component	CAS No	EINECS No	Reg. No	Classification (1272/2008/EC)	Content
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	-	918-481-9	01-2119457273-39-xxxx	Asp. Tox. 1; H304	< 100%

SECTION 4: First aid measures

4.1. Description of first aid measures

GENERAL INFORMATION

Move victim out of danger zone. Remove contaminated clothing, immediately. First aider: Pay attention to self-protection!

EYES CONTACT

In case of contact with the eyes, rinse for several minutes with plenty of water with eyes held open. Obtain medical advice urgently if any pain or redness develops or persists.

SKIN CONTACT

Instantly wash with water and soap and rinse thoroughly. Remove contaminated clothing immediately and wash skin carefully. In case of skin irritation, seek medical treatment.

INGESTION

Get medical advice immediately. Do NOT induce vomiting. Rinse out mouth and then drink plenty of water. Spit the liquid out again.

INHALATION

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness bring patient into recovery position for transport. If breathing is irregular or stopped, administer artificial respiration.

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

Signs for eyes and skin irritation: burning sensation, redness, swelling. Degreases the skin and makes it dry and rough. Prolonged or repeated skin contact may cause dermatitis.

Signs, that material enters lungs: coughing, choking, wheezing, difficulty in breathing, pulmonary blood pressure, dyspnea and/or fever.

The onset of respiratory symptoms may be delayed for several hours after exposure.

Overexposure may cause drowsiness, tiredness, dizziness, headache, and possibly loss of consciousness.

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

Treat symptomatically. There is no specific antidote.

INFORMATIONEN TO PHYSICIAN:

High risk of chemical pneumonia if aspirated during and after ingestion.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguishing media : alcohol-resistant foam, dry fire-extinguishing media or Water spray jet.

MUST NOT BE USED: ful water jet.

5.2. Special hazards arising from the substance or mixture

Vapours are heavier than air and spread on the ground. Vapours may form explosive mixtures with air.
Dangerous decomposition products: carbon monoxide, carbon dioxide.

5.3. Advice for firefighters

Fire in closed rooms must be fought from trained personnel wearing suitable breathing apparatus.
In case of fire: Wear self-contained breathing apparatus. Wear full chemical protective clothing.
Further information: remove container from fire area and use water spray to keep containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: See Section 8 „Protective equipment“. Take away unprotected people. Ensure adequate ventilation. Do not breathe gas/fume/vapour/aerosols. Avoid contact with eyes and skin.
Keep away from sources of ignition - No smoking.

6.2. Environmental precautions

Prevent material from reaching sewage system, holes and cellars. Inform respective authorities in case product reaches water or sewage system.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (like sand, dry powder, vermiculite, etc.). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Clean contaminated area carefully.

6.4. Reference to other sections

Regarding disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure that there is sufficient ventilation of the area, especially in closed rooms. Avoid direct contact with the product.

Product is combustible, but not slightly flammable. Keep away from sources of ignition – do not smoke. Protect against heat. Protect against electrostatic charges. Vapours are heavier than air and spread on the ground. Vapours may form explosive mixtures with air. Avoid generation of aerosols.

Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed and store in a cool, well ventilated place. Store in original container only.

Store away from oxidising agents. Protect from heat and direct sunlight.

Storage class (Germany): 10

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component (CAS No)	Source	AGW	Remark
Hydrocarbon mixtures, used as solvent (solvent-based hydrocarbons), additive-free	TRGS 900	600mg/m ³ ,	Excursion factor 2; Duration 15 min, mean; 4 times per shift; interval 1 hour Category II - Substances with systemic effects

8.2. Exposure controls

Pay attention to measures in section 7.

Personal protection equipment:

Respiratory protection: Use breathing protection in case of insufficient ventilation (filter A, brown, organic gases and vapours with boiling point >65°C).

Hand protection: Gloves (recommended material: nitrile 0,45 mm). The glove manufacturer's information on permeability and breakthrough times must be taken into account. Protective gloves should be replaced at first signs of wear. Preventive skin protection through the use of skin protection products is recommended).

Eye protection: Eye glasses with side protection.

Skin protection: Use protective clothing if there is a risk of direct contact or splashes.

Hygiene measures

Do not eat, drink or smoke at work. Keep away from food, drinks and feedingstuffs.

Wash hands before breaks and after work.

Take off contaminated clothing. Avoid contact to eyes and skin.

Do not breathe mist/vapour/spray.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance :	liquid
Colour :	colourless
Odour ;	like hydro carbon
pH (20°C) :	n.a.
Melting Point :	n.d.
Boiling Point/range :	175 – 220°C
Flash Point :	> 61°C
Auto-ignition temperature :	> 200°C
Explosion Limits :	lower: 0.5 Vol%; upper: 7.0 Vol%
Vapour Pressure :	0.6 mbar (25°C)
Relative Density :	0.770 – 0.815 g/cm ³ (20°C)
Solubility in water (20°C) :	not miscible or difficult to mix
Partition coefficient n-octanol/water :	no data available
Thermic decomposition :	no data available
kinematics viscosity (20°C) :	1.0 – 2.5 mm ² /s
Explosion hazard :	The product is not explosive. The formation of explosive vapor-air mixtures is possible.
Oxidizing properties :	none known

9.2. Other information

No further information.

SECTION 10: Stability and reactivity

10.1. Reactivity

No special information.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Protect against direct sunlight. Keep away from heat and sources of ignition.

10.5. Incompatible materials

Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

Thermal decomposition will generate carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Component	Route	Dose	Species	Remark
Hydro carbons C10-C13, n- alkanes, iso- alkanes, cyclic, < 2% aromatics	oral	LD50 > 5000 mg/kg	Rat	
	dermal	LD50 > 5000 mg/kg	Rabbit	
	inhalativ	LC50 > 5 mg/L	Rat, vapour	OECD 403

Irritation

Repeated or prolonged exposure may cause skin irritation and dermatitis due to degreasing properties.
Irritation to eyes possible, but not relevant for classification.

Sensitisation

Not known to be a sensitizer.

Carcinogenicity

No carcinogenic effects known on today's state of knowledge.

Mutagenicity

No mutagenic effects known on today's state of knowledge.

Reproduction toxicity

No reproduction toxic effects known on today's state of knowledge.

Specific Target Organ Toxicity, single exposure

No effects known on today's state of knowledge.

Specific target Organ Toxicity, repeated exposure

No effects known on today's state of knowledge.

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Component	Aquatic toxicity	Dose	Species	Remark
Hydro carbons C10-C13, n- alkanes, iso- alkanes, cyclic, < 2% aromatics	Fish	LL0 = 1000 mg/L (96 h)	Oncorhynchus mykiss	
	Daphnia	EL0 = 1000 mg/L (48 h)	Daphnia magna	
	Algae	EL0 = 1000 mg/L (72 h)	Pseudokirchne- riella subcapitata	

Component	Chronic toxicity	Dose	Species	Remark
Hydro carbons C10-C13, n- alkanes, iso- alkanes, cyclic, < 2% aromatics	Fish	NOELR = 0,10 mg/L (28 d)	Oncorhynchus mykiss	
	Daphnia	NOELR = 0,18 mg/L (21 d)	Daphnia magna	

12.2. Persistence and degradability

Persistence:

Component	Result
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	Transformation by photolysis is not expected to be significant. Transformation by hydrolysis is not expected to be significant.

Biodegradability:

Component	Result
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	80 % (Exposure: 28 d) Easily biodegradable.

12.3. Bioaccumulative potential

Component	Evaluation
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	Not determined

12.4. Mobility in soil

Component	Evaluation
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	Slightly volatile, it is quickly dispersed in the air. Presumably there is no distribution to the sediment layer and sewage solids.

12.5. Results of PBT and vPvB assessment

This mixture does not contain components in concentrations > 0.1% or higher, which are classified as either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

Must not reach drainage ditch or sewage water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with local regulations. Must not be disposed together with rubbish. Avoid entering sewage system.

Final allocation of waste key depends on product application. Has to be done in collaboration with waste disposal contractor.

SECTION 14: Transport information

	Road transport ADR	Railway transport RID	Inland waterway ADN	Maritime transport IMDG	Air transport IATA
14.1. UN No	Not restricted				
14.2. Proper shipping name	Not restricted				
14.3. Class	Not restricted				
14.4. Packing Group	Not restricted				

14.5. Environmental hazards	No further information
14.6. Special pre-caution for user	No further information
14.7. Transport in bulk acc. to MARPOL 73/78 und IBC Code	No further information

SECTION 15: Regulatory information

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

National regulations

Water hazard class (Germany) WGK: 1

15.2. Chemical safety assessment

For the following substance a chemical safety assessment was done.

Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics

SECTION 16: Other information

Last revision

General review. No changes compared to previous version.

This version replaces all previous versions.

Used abbreviations

n.a. not applicable

n.d. not determined

Literature references and sources of information

Regulation (EC) 1907/2006 (REACH) in valid version

Regulation (EC) 1272/2008 in valid version

National Exposure Limit Values in valid version

Transport regulation acc. to ADR, RID, ADN, IMDG, IATA in valid version

Information from supplier and internal data

List of relevant hazard statements from section 2 and 3 (GHS classification)

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Each user is responsible to determine that the product is suitable for the users intended application and that such usage complies with applicable and administrative rules and guidelines. No statement made in this data sheet shall be construed as a permission, recommendation or authorisation given or implied to practise any patented invention without a valid license. VECOM MARINE shall not be held liable for any abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.

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WA-SOL Basic

SECTION 1: Identification of the substance/mixture and of the company/supplier

1.1. Product identifier

Product Name : WA-SOL Basic (Code S 232)

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

Product use: Component for Mineral Oil Testkits

1.3. Details of the supplier of the safety data sheet

Company: Vecom Marine B.V. Phone : + 31 (0)10 5930 210
Mozartlaan 3 Email : sales@vecom-marine.com
3144 NA Maassluis
The Netherlands

1.4. Emergency telephone number

Emergency : +49 178 433 74 34 Contact: CONSULTANK Lutz Harder

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Acc. to Regulation (EC) 1272/2008	
Hazard class / Hazard category	Hazard statements
Not classified	

2.2. Label elements

Acc. to Regulation (EC) 1272/2008

No labelling required

2.3. Other hazards

The product itself is not to be classified according to valid regulations. The product is a solid like paste, with dispersed calcium hydride. The calcium hydride itself is therefore unable to react. Calcium hydride reacts strongly exothermically with water to form calcium hydroxide and hydrogen gas. Under these circumstances the final mixture is likely to be strongly irritant to skin, eyes and mucous membranes and may cause chemical burns if not removed immediately.

SECTION 3: Composition/information on ingredients

3.1. Substances

This product is a mixture.

3.2. Mixtures

Mixture from following substances and inert materials:

Component	CAS No	EINECS No	Reg. No	Classification (1272/2008/EC)	Content
Calcium dihydride	7789-78-8	232-189-2	01-2120774384-47	Water react. 1; H260	>0,5 % & < 1,0%

SECTION 4: First aid measures

4.1. Description of first aid measures

GENEREL INFORMATION

Remove contaminated clothing, including underwear and shoes, immediately.

EYES CONTACT

Immediately rinse eye thoroughly with copious quantities of water ensuring eyelids are held open.

Obtain medical advice urgently if any pain or redness develops or persists.

SKIN CONTACT

The skin should be washed thoroughly with water and soap as soon as reasonable practical. Change all contaminated clothing and wash underlying skin.

INGESTION

If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is highly unlikely. If it should occur, do NOT induce vomiting; obtain medical advice.

INHALATION

If exposure to vapours, mists or fumes causes irritation of nose/throat or coughing, remove immediately to fresh air. If any symptoms persist, obtain medical advice.

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

Presents a risk of serious damage if accidental eye contact occurs.

Likely to cause severe chemical burns to skin.

Likely to cause severe chemical burns to the mouth, throat and digestive tract. Large quantities may cause severe gastrointestinal disturbance.

May cause irritation to eyes, nose and throat due to exposure to vapour, mists and fumes. Signs for eyes and skin irritation: burning sensation, redness, swelling.

The onset of respiratory symptoms may be delayed for several hours after exposure.

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

Treat symptomatically. There is no specific antidote.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguishing media: alcohol-resistant foam, dry fire-extinguishing media or Water spray jet.

MUST NOT BE USED: water.

5.2. Special hazards arising from the substance or mixture

Dangerous decomposition products: Toxic fumes may be evolved on burning or exposure to heat (see section 10).

5.3. Advice for firefighters

Special Fire-Fighting Procedures: Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: See Section 8 „Protective equipment“.

Ensure adequate ventilation.

Avoid contact with water!

6.2. Environmental precautions

Turn leaking containers leak-side up to prevent the escape of liquid. Do not allow to enter drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Clean up spilled material immediately, using inert material like sand, dry powder, vermiculite, etc.

Spilled material may make surfaces slippery. It is advised that stocks of absorbent material should be held in quantities sufficient to deal with any spillage which can be reasonably anticipated. Collect spills in suitable container.

6.4. Reference to other sections

Regarding disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact. Avoid inhalation. Do not eat drink or smoke while using. Ensure good ventilation. Wear protective clothing when using (see Section 8) and change clothing when contaminated.

7.2. Conditions for safe storage, including any incompatibilities

Store under tightly closed away from heat and sources of ignition. Keep container tightly closed. Hold stocks of suitable absorbent material to deal with any spillage which may be reasonably anticipated.

Fire Prevention: Highly flammable. Avoid contact with water. Product contaminated rags paper or material used to absorb spillages represents a fire hazard and should not be allowed to accumulate. Dispose of safely immediately after use.

Storage class (Germany): 10

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits: Ensure good ventilation. Avoid, as far as reasonably practicable, inhalation of vapour, mists or fumes generated during use. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

Comply with current local occupational exposure limit. Where not established, it is recommended that mists are kept below 5mg/m³ (8hr TWA).

8.2. Exposure controls

Pay attention to measures in section 7.

Personal protection equipment:

Respiratory protection: Respiratory protection is unnecessary provided the concentration of vapour mists and fumes is adequately controlled. The employment of respiratory equipment must be strictly in accordance with the manufacturer's instructions and any statutory requirements governing its selection and use.

Hand protection: protective gloves (suitable material: Polychloroprene, Nitril rubber, Butyl rubber, Fluor rubber, Polyvinylchloride).

Eye protection: Eye glasses with side protection.

Skin protection: Use protective clothing if there is a risk of direct contact or splashes.

Hygiene measures

Do not eat, drink or smoke at work. Keep away from food, drink and feeding stuff.

Wash hands before breaks and after work.

Take off contaminated clothing. Avoid contact with eyes and skin.

Do not breathe mist/vapour/spray.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: paste
Colour	: off white
Odour	: mild, characteristic
pH (20°C)	: n.a.
Melting Point	: n.d.
Boiling Point/range	: n.d.
Flash Point	: n.d.
Auto-ignition temperature	: not established
Explosion Limits	: lower: -; upper: -
Vapour Pressure	: not established (20°C)
Relative Density	: ~0,87 g/cm ³ (15°C)

Kinematical viscosity : n.d.
Solubility in water : insoluble

9.2. Other information

No further information.

SECTION 10: Stability and reactivity

10.1. Reactivity

Contact with water liberates extremely flammable gas.

10.2. Chemical stability

Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use. Hazardous polymerisation will not occur.

10.3. Possibility of hazardous reactions

Contact with water liberates extremely flammable gas.

10.4. Conditions to avoid

Stable under normal conditions of storage. Keep away from water and extreme humidity.

10.5. Incompatible materials

Avoid contact with water, oxidising agents, acids, bromates, chlorates, perchlorates, halogens, silver halides and lower alcohols.

10.6. Hazardous decomposition products

Calcium hydride reacts with water to form hydrogen and calcium hydroxide. Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions. Incomplete combustion/thermal decomposition will generate carbon dioxide and hazardous gases, which will include carbon monoxide. During the test in which this reagent is used, highly flammable hydrogen gas may be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

LD 50 (oral) No data available.

LD 50 (dermal) No data available.

LC 50 (inhal.) (4h) No data available.

Irritation

Calcium hydride reacts strongly exothermically with water to form calcium hydroxide and hydrogen gas. Under these circumstances the reaction mixture is likely to be strongly irritant to the skin, eyes and mucous membranes and may cause chemical burns if not removed immediately.

Sensitisation

Not known to be a sensitizer.

Repeated dose toxicity

Frequent persistent or long-term exposure may result in irritation.

Carcinogenicity

No carcinogenic effects known on today's state of knowledge.

Mutagenicity

No mutagenic effects known on today's state of knowledge.

Reproduction toxicity

No reproduction toxic effects known on today's state of knowledge.

Specific Target Organ Toxicity, single exposure

No effects known on today's state of knowledge.

Specific Target Organ Toxicity, repeated exposure

No effects known on today's state of knowledge.

Aspiration hazard

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Fish: No data available.

Crustaceans: No data available.

Algae: No data available.

12.2. Persistence and degradability

This product is not completely biodegradable.

12.3. Bioaccumulative potential

This material is not expected to bio accumulate.

12.4. Mobility in soil

Spillage may penetrate the soil causing ground water contamination.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Ecotoxic effects: On exposure to air, calcium hydride can give rise to products hazardous in water, having a strongly alkaline reaction. The resultant pH-change may be harmful to aquatic and soil organisms. However the quantities of Solution B per test kit are small and not thought to present an environmental hazard in normal use.

Water hazard class (Germany): WGK 1 (self classification). Do not allow to enter drains/surface waters/groundwater.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Where possible arrange for product to be recycled.

Dispose of via an authorized person/ licensed waste disposal contractor in accordance with local regulations. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

At sea, used or unwanted product should be stored for eventual disposal by a licensed waste disposal contractor.

Final allocation of waste key depends on product application. Has to be done in collaboration with waste disposal contractor.

Supplier proposal waste key number: 16 05 06*

SECTION 14: Transport information

	Road transport ADR	Railway transport RID	Inland waterway ADN	Maritime transport IMDG	Air transport IATA
14.1. UN No	Not restricted				
14.2. Proper shipping name	Not restricted				
14.3. Class	Not restricted				
14.4. Packing Group	Not restricted				
14.5. Environmental hazards	No further information				
14.6. Special pre-caution for user	No further information				

	Road transport ADR	Railway transport RID	Inland waterway ADN	Maritime transport IMDG	Air transport IATA
14.7. Transport in bulk acc. to MARPOL 73/78 und IBC Code	No further information				

SECTION 15: Regulatory information

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

National regulations

Water hazard class (Germany) WGK: 1

15.2. Chemical safety assessment

For the product no chemical safety assessment is available.

SECTION 16: Other information

Last revision

General review. No changes compared to previous version.

This version replaces all previous versions.

Used abbreviations

n.a. not applicable

n.d. not determined

Literature references and sources of information

Regulation (EC) 1907/2006 (REACH) in valid version

Regulation (EC) 1272/2008 in valid version

National Exposure Limit Values in valid version

Transport regulation acc. to ADR, RID, ADN, IMDG, IATA in valid version

Information from supplier and internal data

List of relevant hazard statements from section 2 and 3 (GHS classification)

H260 In contact with water releases flammable gases which may ignite spontaneously.

ATTENTION!

Directly at the work place the component WA-SOL Basic will be mixed with component WA-SOL Activator to form final product (see technical information). Within the final product the calcium hydride is in reactive state. Therefore the final product has to be classified and labelled according to Regulation (EC) 1272/2008:

Acc. to Regulation (EC) 1272/2008



Pictograms

GHS02

Flame

Signal word:

Danger

H statements

H260 In contact with water releases flammable gases which may ignite spontaneously.

P statements

P262 Do not get on eyes, on skin, or on clothing.

P370 + P378 In case of fire: Use foam/dry/CO2 and NO water for extinction.

P402 + P404 Store in a dry place. Store in a closed container.

The final product shall not be transported. In case of a transport this has to be done according to transport regulations for dangerous goods:

UN-No : 3148 - Water reactive liquids, nos. (contains calcium dihydride, Class 4.3, Packing Group I)

AIR – IATA/ICAO Class 4.3, Water reactive liquids, nos. (Contains calcium dihydride), Packing Group I, Dangerous when wet. Forbidden on passenger aircraft. Max net quantity/package on cargo aircraft 1l.

LAND - ADR Class 4.3 – Packing Group I, WATER REACTIVE LIQUID, N.O.S. (contains calcium dihydride), Hazard Identification: X323; Tunnel category (B/E).

SEA – IMDG Class 4.3, Water reactive liquids, nos. (contains Calcium dihydride), UN No. 3148, Class 4.3, Packing Group I; EmS: F-G, S-N.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Each user is responsible to determine that the product is suitable for the users intended application and that such usage complies with applicable and administrative rules and guidelines. No statement made in this data sheet shall be construed as a permission, recommendation or authorisation given or implied to practise any patented invention without a valid license. VECOM MARINE shall not be held liable for any abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.

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TEST KIT CLEANER

SECTION 1: Identification of the substance/mixture and of the company/supplier

1.1. Product identifier

Product Name : Test Kit Cleaner (Code S 105)

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

Product use: Cleaning agent for test equipment

1.3. Details of the supplier of the safety data sheet

Company: Vecom Marine B.V. Phone : + 31 (0)10 5930 210
Mozartlaan 3 Email : sales@vecom-marine.com
3144 NA Maassluis
The Netherlands

1.4. Emergency telephone number

Emergency : +49 178 433 74 34 Contact: CONSULTANK Lutz Harder

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Acc. to Regulation (EC) 1272/2008	
Hazard class / Hazard category	Hazard statements
Aspiration, category 1	H304

2.2. Label elements

Acc. to Regulation (EC) 1272/2008



Pictograms

GHS08
Health hazard

Signal word: Danger

H statements

H304 May be fatal if swallowed and enters airways.
EUH066 Repeated exposure may cause skin dryness or cracking.

P statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container to authorized waste disposal plant.

2.3. Other hazards

Results of PBT and vPvB evaluation see chapter 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substances

This product is a mixture.

3.2. Mixtures

Component	CAS No	EINECS No	Reg. No	Classification (1272/2008/EC)	Content
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	-	918-481-9	01-2119457273-39-xxxx	Asp. Tox. 1; H304	< 100%

SECTION 4: First aid measures

4.1. Description of first aid measures

GENEREL INFORMATION

Move victim out of danger zone. Remove contaminated clothing, immediately. First aider: Pay attention to self-protection!

EYES CONTACT

In case of contact with the eyes, rinse for several minutes with plenty of water with eyes held open. Obtain medical advice urgently if any pain or redness develops or persists.

SKIN CONTACT

Instantly wash with water and soap and rinse thoroughly. Remove contaminated clothing immediately and wash skin carefully. In case of skin irritation, seek medical treatment.

INGESTION

Get medical advice immediately. Do NOT induce vomiting. Rinse out mouth and then drink plenty of water. Spit the liquid out again.

INHALATION

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness bring patient into recovery position for transport. If breathing is irregular or stopped, administer artificial respiration.

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

Signs for eyes and skin irritation: burning sensation, redness, swelling. Degreases the skin and makes it dry and rough. Prolonged or repeated skin contact may cause dermatitis.

Signs, that material enters lungs: coughing, choking, wheezing, difficulty in breathing, pulmonary blood pressure, dyspnea and/or fever.

The onset of respiratory symptoms may be delayed for several hours after exposure.

Overexposure may cause drowsiness, tiredness, dizziness, headache, and possibly loss of consciousness.

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

Treat symptomatically. There is no specific antidote.

INFORMATIONEN TO PHYSICIAN:

High risk of chemical pneumonia if aspirated during and after ingestion.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguishing media : alcohol-resistant foam, dry fire-extinguishing media or Water spray jet.

MUST NOT BE USED: Full water jet.

5.2. Special hazards arising from the substance or mixture

Vapours are heavier than air and spread on the ground. Vapours may form explosive mixtures with air.

Dangerous decomposition products: carbon monoxide, carbon dioxide.

5.3. Advice for firefighters

Fire in closed rooms must be fought from trained personnel wearing suitable breathing apparatus. In case of fire: Wear self-contained breathing apparatus. Wear full chemical protective clothing. Further information: remove container from fire area and use water spray to keep containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: See Section 8 „Protective equipment“. Take away unprotected people. Ensure adequate ventilation. Do not breathe gas/fume/vapour/aerosols. Avoid contact with eyes and skin. Keep away from sources of ignition - No smoking.

6.2. Environmental precautions

Prevent material from reaching sewage system, holes and cellars. Inform respective authorities in case product reaches water or sewage system.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (like sand, dry powder, vermiculite, etc.). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Clean contaminated area carefully.

6.4. Reference to other sections

Regarding disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure that there is sufficient ventilation of the area, especially in closed rooms. Avoid direct contact with the product.

Product is combustible, but not slightly flammable. Keep away from sources of ignition – do not smoke. Protect against heat. Protect against electrostatic charges. Vapours are heavier than air and spread on the ground. Vapours may form explosive mixtures with air. Avoid generation of aerosols.

Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed and store in a cool, well ventilated place. Store in original container only. Store away from oxidising agents. Protect from heat and direct sunlight.

Storage class (Germany): 10

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component (CAS No)	Source	AGW	Remark
Hydrocarbon mixtures, used as solvent (solvent-based hydrocarbons), additive-free	TRGS 900	600mg/m ³ ,	Excursion factor 2; Duration 15 min, mean; 4 times per shift; interval 1 hour Category II - Substances with systemic effects

8.2. Exposure controls

Pay attention to measures in section 7.

Personal protection equipment:

Respiratory protection: Use breathing protection in case of insufficient ventilation (filter A, brown, organic gases and vapours with boiling point >65°C).

Hand protection: Gloves (recommended material: nitrile 0,45 mm). The glove manufacturer's information on permeability and breakthrough times must be taken into account. Protective gloves should be replaced at first signs of wear. Preventive skin protection through the use of skin protection products is recommended.

Eye protection: Eye glasses with side protection.

Skin protection: Use protective clothing if there is a risk of direct contact or splashes.

Hygiene measures

Do not eat, drink or smoke at work. Keep away from food, drinks and feedingstuffs.

Wash hands before breaks and after work.

Take off contaminated clothing. Avoid contact to eyes and skin.

Do not breathe mist/vapour/spray.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance :	liquid
Colour :	colourless
Odour ;	like hydro carbon
pH (20°C) :	n.a.
Melting Point :	n.d.
Boiling Point/range :	175 – 220°C
Flash Point :	> 61°C
Auto-ignition temperature :	> 200°C
Explosion Limits :	lower: 0.5 Vol%; upper: 7.0 Vol%
Vapour Pressure :	0.6 mbar (25°C)
Relative Density :	0.770 – 0.815 g/cm ³ (20°C)
Solubility in water (20°C) :	not miscible or difficult to mix
Partition coefficient	
n-octanol/water :	no data available
Thermic decomposition :	no data available
kinematics viscosity (20°C) :	1.0 – 2.5 mm ² /s
Explosion hazard :	The product is not explosive. The formation of explosive vapor-air mixtures is possible.
Oxidizing properties :	none known

9.2. Other information

No further information.

SECTION 10: Stability and reactivity

10.1. Reactivity

No special information.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Protect against direct sunlight. Keep away from heat and sources of ignition.

10.5. Incompatible materials

Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

Thermal decomposition will generate carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Component	Route	Dose	Species	Remark
Hydro carbons C10-C13, n- alkanes, iso- alkanes, cyclic, < 2% aromatics	oral	LD50 > 5000 mg/kg	Rat	
	dermal	LD50 > 5000 mg/kg	Rabbit	
	inhalativ	LC50 > 5 mg/L	Rat, vapour	OECD 403

Irritation

Repeated or prolonged exposure may cause skin irritation and dermatitis due to degreasing properties.
Irritation to eyes possible, but not relevant for classification.

Sensitisation

Not known to be a sensitizer.

Carcinogenicity

No carcinogenic effects known on today's state of knowledge.

Mutagenicity

No mutagenic effects known on today's state of knowledge.

Reproduction toxicity

No reproduction toxic effects known on today's state of knowledge.

Specific Target Organ Toxicity, single exposure

No effects known on today's state of knowledge.

Specific target Organ Toxicity, repeated exposure

No effects known on today's state of knowledge.

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Component	Aquatic toxicity	Dose	Species	Remark
Hydro carbons C10-C13, n- alkanes, iso- alkanes, cyclic, < 2% aromatics	Fish	LL0 = 1000 mg/L (96 h)	Oncorhynchus mykiss	
	Daphnia	EL0 = 1000 mg/L (48 h)	Daphnia magna	
	Algae	EL0 = 1000 mg/L (72 h)	Pseudokirchne- riella subcapitata	

Component	Chronic toxicity	Dose	Species	Remark
Hydro carbons C10-C13, n- alkanes, iso- alkanes, cyclic, < 2% aromatics	Fish	NOELR = 0,10 mg/L (28 d)	Oncorhynchus mykiss	
	Daphnia	NOELR = 0,18 mg/L (21 d)	Daphnia magna	

12.2. Persistence and degradability

Persistence:

Component	Result
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	Transformation by photolysis is not expected to be significant. Transformation by hydrolysis is not expected to be significant.

Biodegradability:

Component	Result
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	80 % (Exposure: 28 d) Easily biodegradable.

12.3. Bioaccumulative potential

Component	Evaluation
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	Not determined

12.4. Mobility in soil

Component	Evaluation
Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics	Slightly volatile, it is quickly dispersed in the air. Presumably there is no distribution to the sediment layer and sewage solids.

12.5. Results of PBT and vPvB assessment

This mixture does not contain components in concentrations > 0.1% or higher, which are classified as either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

Must not reach drainage ditch or sewage water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with local regulations. Must not be disposed together with rubbish. Avoid entering sewage system.

Final allocation of waste key depends on product application. Has to be done in collaboration with waste disposal contractor.

SECTION 14: Transport information

	Road transport ADR	Railway transport RID	Inland waterway ADN	Maritime transport IMDG	Air transport IATA
14.1. UN No	Not restricted				
14.2. Proper shipping name	Not restricted				
14.3. Class	Not restricted				
14.4. Packing Group	Not restricted				
14.5. Environmental hazards	No further information				

	Road transport ADR	Railway transport RID	Inland waterway ADN	Maritime transport IMDG	Air transport IATA
14.6. Special pre-caution for user	No further information				
14.7. Transport in bulk acc. to MARPOL 73/78 und IBC Code	No further information				

SECTION 15: Regulatory information

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

National regulations

Water hazard class (Germany) WGK: 1

15.2. Chemical safety assessment

For the following substance a chemical safety assessment was done.

Hydro carbons C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics

SECTION 16: Other information

Last revision

General review. No changes compared to previous version.

This version replaces all previous versions.

Used abbreviations

n.a. not applicable

n.d. not determined

Literature references and sources of information

Regulation (EC) 1907/2006 (REACH) in valid version

Regulation (EC) 1272/2008 in valid version

National Exposure Limit Values in valid version

Transport regulation acc. to ADR, RID, ADN, IMDG, IATA in valid version

Information from supplier and internal data

List of relevant hazard statements from section 2 and 3 (GHS classification)

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Each user is responsible to determine that the product is suitable for the users intended application and that such usage complies with applicable and administrative rules and guidelines. No statement made in this data sheet shall be construed as a permission, recommendation or authorisation given or implied to practise any patented invention without a valid license. VECOM MARINE shall not be held liable for any abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.

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