Printing date 02/22/2024

Anspruch verb

Reviewed on 02/22/2024

### 1 Identification

#### · Product identifier

- Trade name: WAKOL Applicator 90
- · Application of the substance / the mixture Lithium Ion Battery
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Loba-Wakol, LLC 2732 Hwy 74 West Wadesboro, NC 28170, USA info@loba-wakol.com +1 704 527 5919

· Information department: Product safety department.

• Emergency telephone number: Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 98229: (USA domestic) 1 800 535 5053 or International (001) 352 323 3500

### 2 Hazard(s) identification

- Classification of the substance or mixture
- This product is considered an article under the OSHA Hazard Communication Standard [24 CFR 1910.1200].

The product is not classified, according to the Globally Harmonized System (GHS).

#### · Label elements

Within the meaning of the OSHA Hazard Communication Standard [24 CFR 1910.1200]:

This mixture is not considered a hazard when used in a manner which is consistent with the labeled directions.

This mixture is considered an article in its final form.

This SDS covers the hazards and information of the material contained within the article, in the event the product is damaged or mishandled.

Under normal conditions of use these chemicals are not anticipated to be available for exposure. Substances within this product may be reactive with water, air, and are flammable if released.

Thermal decomposition of this product may generate corrosive and toxic vapors.

In particular Hydrofluoric acid may be released in case of open cells.

Hydrofluoric acid can cause severe chemical burns, is toxic by all routes of exposure, and is very reactive.

See section "Other hazards" for hazards related to the ingredients encased within this product.

Avoid extremely high or low temperatures, keep away from incompatible materials.

- Do not open, puncture, damage, or incinerate container.
- Keep out of reach of children.

Store batteries in a dry and cool place!

- GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)

 $\begin{array}{c} 2 \\ 2 \\ 0 \\ \end{array} \begin{array}{c} Health = 2 \\ Fire = 2 \\ Reactivity = 0 \end{array}$ 

(Contd. on page 2)

US

Printing date 02/22/2024

Reviewed on 02/22/2024

Trade name: WAKOL Applicator 90

	ntd. of page 1)
$\begin{array}{c c} HMIS-ratings (scale 0 - 4) \\ \hline HEALTH & 2 \\ FIRE & 2 \end{array} Health = *2 \\ Fire = 2 \end{array}$	
$\begin{array}{c} \text{REACTIVITY} \\ \hline \end{array} \\ \hline \\ \hline$	
• <b>Other hazards</b> H301 - Toxic if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.	
• <b>Results of PBT and vPvB assessment</b> • <b>PBT:</b> Not applicable. • <b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
• Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions.	
Dangerous components:	
1313-13-9 manganese dioxide, ore of Chapter 26 Specific Target Organ Toxicity - Repeated Exposure 2, H373; (1) Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332	10-<20%
1313-99-1 nickel monoxide	10-<20%
1307-96-6 cobalt oxide Acute Toxicity - Oral 3, H301;  Sensitization - Respiratory 1, H334; Carcinogenicity 2, H351;  Sensitization - Skin 1, H317	10-<20%
21324-40-3 Lithiumhexafluorophosphat	5%
7440-50-8 copper	2.5-<10%
7429-90-5 aluminium	2.5-<10%

### 4 First-aid measures

### $\cdot$ Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

(Contd. on page 3)



Printing date 02/22/2024

Reviewed on 02/22/2024

Trade name: WAKOL Applicator 90

(Contd. of page 2)

• *After inhalation: Exposure to the contents of an open or damaged battery: Supply fresh air; consult doctor in case of complaints.* 

• *After skin contact: Exposure to the contents of an open or damaged battery: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.* 

• After eye contact:

Exposure to the contents of an open or damaged battery:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Exposure to the contents of an open or damaged battery:

Rinse out mouth. Call a doctor immediately.

• Information for doctor:

• *Most important symptoms and effects, both acute and delayed* No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, sand, extinguishing powder. Do not use water.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents: Water

• Special hazards arising from the substance or mixture No further relevant information available.

• Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

• Additional information Cool endangered receptacles with water spray.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Keep away from ignition sources

• Environmental precautions:

Do not allow product to reach sewage system or any water course.

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

• Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

*Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents* 

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

#### · Handling:

· Precautions for safe handling Keep receptacles tightly sealed.

(Contd. on page 4)



<sup>05-</sup>

Printing date 02/22/2024

Reviewed on 02/22/2024

Trade name: WAKOL Applicator 90

· Information about protection against explosions and fires:



Keep ignition sources away - Do not smoke.

· Conditions for safe storage, including any incompatibilities

• Storage:

• Requirements to be met by storerooms and receptacles: Store in a cool location.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

•	Control	parameters
---	---------	------------

1313-13-9 mangar	nese dioxide, ore of Chapter 26	
PEL (USA)	Ceiling limit value: 5 mg/m³ as Mn	
REL (USA)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ as Mn	
TLV (USA)	Long-term value: 0.02* 0.1** mg/m³ as Mn; *respirable **inhalable fraction	
IOELV (European	Union) Long-term value: 0.2* 0.05** mg/m³ as Mn; *inhalable, **respirable fraction	
1313-99-1 nickel n	nonoxide	
PEL (USA)	Long-term value: 1 mg/m³ as Ni	
REL (USA)	Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A	
TLV (USA)	Long-term value: 0.2 mg/m³ as Ni; inhalable fraction	
1307-96-6 cobalt o	oxide	
PEL (USA)	Long-term value: 0.1* mg/m³ as Co; *for metal dust and fume	
REL (USA)	Long-term value: 0.05 mg/m³ as Co; metal dust & fume	
TLV (USA)	Long-term value: (0.02) NIC-0.02* mg/m <sup>3</sup> as Co, *inhalable; NIC-DSEN; RSEN; BEI	
		(Contd. on page 5)



(Contd. of page 3)



Printing date 02/22/2024

Reviewed on 02/22/2024

Trade name: WAKOL Applicator 90

					(Contd. of page 4)
7440-50-8	copper				
PEL (USA)	)	Long-term value: 1 as Cu *dusts and m			
REL (USA)	)	Long-term value: 1 as Cu *dusts and m	•		
TLV (USA)	)	Long-term value: 1 *dusts and mists; *	* 0.2** mg/m <sup>3</sup>		
7429-90-5	aluminium				
PEL (USA)	)	Long-term value: 1. *Total dust; ** Res			
REL (USA)	)	Long-term value: 1 as Al*Total dust**1		wd./welding f.	
TLV (USA)		Long-term value: 1 as Al; *as respirabl			
		al limit values:			
1307-96-6	cobalt oxide				
BEI (USA)					
	Medium: urin		ah		
		hift at end of workwe obalt (background)	ек		
	i urumeter. et	ooun (ouchground)			
	1 μg/L				
	Medium: urin				
		hift at end of workwe			
4.1.1:4:		obalt (background, se			h
· Aaaittonai	injormation:	The lists that were va	illa auring the crea	ation were used as	DASIS.
· Exposure					
	rotective equip		/	1	
· General pi · Breathing		ygienic measures: W	asn nanas bejore	breaks and at the e	na oj work.
		al conditions of use.			
	lling damaged				
			athing apparatus	whenever exposu	re may exeed established
1	nal Exposure L	imits.			
• Protection		1 1			
		al conditions of use.			
	lling damaged	t protective gloves.			
· Eye protec		i protective gloves.			
		al conditions of use.			
	lling damaged				
	goggles or safe	ty glasses.			
· Body prote		1 1 0			
		al conditions of use.			
	lling damaged ble protective				
mean suitu	ore protective	cioining.			
					(Contd on page 6)



(Contd. on page 6)

Printing date 02/22/2024

Anspruch verbindet

/dko

Trade name: WAKOL Applicator 90

Reviewed on 02/22/2024

(Contd. of page 5)

Appearance:Appearance:Form:SolidColor:According to product specificationOdor:OdorlessOdor threshold:Not determined.pH-value:Not applicable.Change in conditionIndetermined.Metting point/Belting range:Undetermined.Boiling point/Bolling range:Undetermined.Flash point:Not applicable.Flash point:Not applicable.Flammability (solid, gaseous):Contact with water liberates extremely flammable gases.Decomposition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Lower:Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot applicable.Solubility in / Miscibility withWall soluble.Water:Insoluble.organic solvents:well soluble.Partition coefficient (n-octanol/water): Not determined.Viscosity:Joit applicable.Pynamic:Not applicable.Kinematic:Not applicable.Kinematic:Not applicable.Pynamic:Not applicable.Construction coefficient (n-octanol/water): Not determined.Viscosity:	Information on basic physical and	chemical properties
Appearance:Form:SolidColor:According to product specificationOdor:OdorlessOdor threshold:Not determined.pH-value:Not applicable.Change in conditionUndetermined.Flash point/Boiling range:Undetermined.Boiling point/Boiling range:Undetermined.Flash point:Not applicable.Flash point:Not determined.Flash point:Not determined.Boiling range:Videtermined.Flash point:Contact with water liberates extremely flammable gases.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Not determined.Upper:Not determined.Vapor pressure:Not determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility with Water:Not applicable.Water:Insoluble.organic solvents:well solubleVell solubleNot applicable.Partition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.Not applicableNot applicable.Partition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.VaterNot applicable.<		
Color:According to product specificationOdor:OdorlessOdor threshold:Not determined.pH-value:Not applicable.Change in conditionUndetermined.Melting point/Melting range:Undetermined.Boiling point/Boiling range:Undetermined.Flash point:Not applicable.Flammability (solid, gaseous):Contact with water liberates extremely flammable gases.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Not determined.Upper:Not determined.Vapor pressure:Not determined.Not applicable.Not applicable.Density:Not determined.Vapor densityNot determined.Vapor densityNot applicable.Solubility in / Miscibility withMot applicable.Water:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity:Dynamic:Not applicable.		
Odor:OdorlessOdor threshold:Not determined.pH-value:Not applicable.Change in conditionUndetermined.Metting point/Boiling range:Undetermined.Boiling point/Boiling range:Undetermined.Flash point:Not applicable.Flammability (solid, gaseous):Contact with water liberates extremely flammable gases.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Image:Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Not applicable.Not applicable.Density:Not determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot applicable.Solubility in / Miscibility withWater:Water:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity:Dynamic:Dynamic:Not applicable.		
Odor threshold:Not determined.pH-value:Not applicable.Change in conditionUndetermined.Melting point/Melting range:Undetermined.Boiling point/Boiling range:Undetermined.Flash point:Not applicable.Flammability (solid, gaseous):Contact with water liberates extremely flammable gases.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Implicable.Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Solubility in / Miscibility withInsoluble.Water:Insoluble.organic solvents:Insoluble.Partition coefficient (n-octanol/water):Not determined.Viscosity:Not applicable.Partition coefficient (n-octanol/water):Not applicable.Viscosity:Not applicable.Partition coefficient (n-octanol/water):Not determined.Viscosity:Not applicable.Partition coefficient (n-octanol/water):Not applicable.Viscosity:Not applicable.Partition coefficient (n-octanol/water):Not applicable.Partition coefficient (n-octanol/water):Not applicable.Viscosity:Not applicable.Partition coefficient (n-octanol/w		
pH-value:       Not applicable.         Change in condition       Undetermined.         Melting point/Melting range:       Undetermined.         Boiling point/Boiling range:       Undetermined.         Flash point:       Not applicable.         Flash point:       Not applicable.         Flash point:       Not applicable.         Flammability (solid, gaseous):       Contact with water liberates extremely flammable gases.         Decomposition temperature:       Not determined.         Ignition temperature:       Product is not selfigniting.         Danger of explosion:       Product does not present an explosion hazard.         Explosion limits:       Implicable.         Lower:       Not determined.         Vapor pressure:       Not determined.         Not applicable.       Not applicable.         Pensity:       Not determined.         Vapor density       Not determined.         Vapor density       Not applicable.         Solubility in / Miscibility with       Implicable.         Water:       Insoluble.         organic solvents:       Well soluble         organic solvents:       Well soluble         Partition coefficient (n-octanol/water): Not determined.         Viscosity:       Dynamic: <th></th> <th></th>		
Change in conditionMetting point/Metting range:Undetermined.Boiling point/Boiling range:Undetermined.Flash point:Not applicable.Flammability (solid, gaseous):Contact with water liberates extremely flammable gases.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Image: Contact with water liberates extremely flammable gases.Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Solubility in / Miscibility withInsoluble.Water:Insoluble.organic solvents:Wetl solublePartition coefficient (n-octanol/water):Not determined.Viscosity:Not applicable.Portition:Not applicable.Prostip:Not determined.Viscosity:Insoluble.portition coefficient (n-octanol/water):Not determined.Viscosity:Not applicable.Portition coefficient (n-octanol/water):Not applicable.Viscosity:Not applicable.Portition coefficient (n-octanol/water):Not applicable.Porticone:Not applicable.Porticone:Not applicable.Porticone:Not applicable.Porticone:Not applicable.Porticone:Not	Odor threshold:	Not determined.
Mefing point/Melting range:Undetermined.Boiling point/Boiling range:Undetermined.Boiling point/Boiling range:Not applicable.Flash point:Not applicable.Flammability (solid, gaseous):Contact with water liberates extremely flammable gases.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Not determined.Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Pensity:Not determined.Kelative densityNot determined.Vapor densityNot applicable.Solubility in / Miscibility with Water:Insoluble.Water:Insoluble.organic solvents:Not determined.Viscosity:Not determined.Viscosity:Not applicable.Partition coefficient (n-octanol/water):Not determined.Viscosity:Not applicable.Pynamic:Not applicable.	pH-value:	Not applicable.
Boiling point/Boiling range:Undetermined.Flash point:Not applicable.Flammability (solid, gaseous):Contact with water liberates extremely flammable gases.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Vot determined.Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Ponduct does not present an explosion hazard.Explosion limits:Lower:Not determined.Vapor pressure:Not determined.Ponduct does not presentDensity:Not determined.Policable.Density:Not determined.Water:Not determined.Vapor densityNot deplicable.Evaporation rateInsoluble.Solubility in / Miscibility with Water:Multe.Water:Insoluble.organic solvents:Not determined.Viscosity: Dynamic:Not applicable.Duration coefficient (n-octanol/water):Not determined.		
Flash point:Not applicable.Flash point:Not applicable.Flammability (solid, gaseous):Contact with water liberates extremely flammable gases.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Valuermined.Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Ponduct does not present an explosion hazard.Selfitive densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility with Water:Insoluble.Water:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.		
Flammability (solid, gaseous):Contact with water liberates extremely flammable gases.Flammability (solid, gaseous):Not determined.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Image: Contact with water liberates extremely flammable gases.Lower:Not determined.Upper:Not determined.Vapor pressure:Not applicable.Density:Not determined.Vapor densityNot determined.Solubility in / Miscibility with Water:Insoluble.Water:Insoluble.organic solvents:Wot determined.Partition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.Dynamic:Not applicable.	Boiling point/Boiling range:	Undetermined.
Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Vot determined.Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Density:Not determined.Relative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility with Water:Insoluble.Water:Insoluble.organic solvents:Well solublePartition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.	Flash point:	Not applicable.
Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Not determined.Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Density:Not determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility with Water:Insoluble.Water:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.Not applicableNot determined.Viscosity: Dynamic:Not applicable.Not determined.Not determined.Not applicableNot determined.Not applicableNot determined.Not determined.Not determined.Not determined.Not determined.Not applicableNot determined.Not applicableNot applicableNot applicableNot applicable	Flammability (solid, gaseous):	Contact with water liberates extremely flammable gases.
Danger of explosion:Product does not present an explosion hazard.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Not determined.Lower:Not determined.Upper:Not determined.Vapor pressure:Not determined.Density:Not determined.Relative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility with Water:Insoluble.Water:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.Not applicable.	<b>Decomposition temperature:</b>	Not determined.
Explosion limits: Lower: Upper:Not determined.Wapor pressure:Not determined.Vapor pressure:Not applicable.Density:Not determined.Partition rateNot applicable.Solubility in / Miscibility with Water: organic solvents:Insoluble.Partition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.	Ignition temperature:	Product is not selfigniting.
Lower:Not determined.Upper:Not determined.Vapor pressure:Not applicable.Density:Not determined.Relative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility with Water:Insoluble.Water:Not out applicable.organic solvents:Not determined.Viscosity:Not determined.Dynamic:Not determined.	Danger of explosion:	Product does not present an explosion hazard.
Upper:Not adetermined.Vapor pressure:Not applicable.Density:Not determined.Relative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility withInsoluble.Water:Insoluble.organic solvents:Well solublePartition coefficient (n-octanol/water):Not determined.Viscosity:Not applicable.Dynamic:Not applicable.	Explosion limits:	
Vapor pressure:Not applicable.Density:Not determined.Relative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility with Water:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.		
Density:Not determined.Relative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility withInsoluble.Water:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity:Not applicable.Dynamic:Not applicable.	Upper:	Not determined.
Relative densityNot determined.Vapor densityNot applicable.Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility with Water:Insoluble.Water:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.	Vapor pressure:	Not applicable.
Vapor densityNot applicable.Evaporation rateNot applicable.Solubility in / Miscibility with Water:Insoluble.organic solvents:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.	Density:	Not determined.
Evaporation rateNot applicable.Solubility in / Miscibility with Water:Insoluble.organic solvents:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic:Not applicable.	Relative density	Not determined.
Solubility in / Miscibility with         Water:       Insoluble.         organic solvents:       well soluble         Partition coefficient (n-octanol/water): Not determined.         Viscosity:         Dynamic:       Not applicable.		
Water:Insoluble.organic solvents:well solublePartition coefficient (n-octanol/water): Not determined.Viscosity:Not applicable.	Evaporation rate	Not applicable.
organic solvents:well solublePartition coefficient (n-octanol/water): Not determined.Viscosity:Dynamic:Not applicable.	Solubility in / Miscibility with	
Partition coefficient (n-octanol/water): Not determined.         Viscosity:         Dynamic:         Not applicable.		
Viscosity: Dynamic: Not applicable.	organic solvents:	well soluble
Dynamic: Not applicable.	Partition coefficient (n-octanol/wat	er): Not determined.
Kinematic: Not applicable.	•	
	Kinematic:	Not applicable.

## 10 Stability and reactivity

· *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

• Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

(Contd. on page 7)

US -

Printing date 02/22/2024

Reviewed on 02/22/2024

Trade name: WAKOL Applicator 90

· Hazardous decomposition products: No dangerous decomposition products known.

(Contd. of page 6)

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the eye: Based on available data, the classification criteria are not met.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

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

Harmful

Carcinogenic if inhaled.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

#### · Carcinogenic categories

· <u>IARC</u> (International Agency for Research on Cancer)

1313-99-1 nickel monoxide: 1

1307-96-6 cobalt oxide: 2B

· NTP (National Toxicology Program)

1313-99-1 nickel monoxide: K

• OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

- Danger to drinking water if even extremely small quantities leak into the ground.
- Also poisonous for fish and plankton in water bodies.
- Very toxic for aquatic organisms
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

(Contd. on page 8)



Printing date 02/22/2024

Reviewed on 02/22/2024

Trade name: WAKOL Applicator 90

(Contd. of page 7)

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

*Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.* 

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, ADR, IMDG, IATA	UN3481
UN proper shipping name	17 • 1
ADR IMDG, IATA	Void Lithum ion patteries packed with equipment
Transport hazard class(es)	LITHIUM ION BATTERIES PACKED WITH EQUIPMENT
DOT, ADR, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	17.:1
DOT, ADR, IMDG, IATA Environmental hazards:	Void Not applicable.
Environmental nazaras: Special precautions for user	Warning: Miscellaneous dangerous substances and articles
EMS Number:	F-A,S-I
Stowage Category	A
Stowage Code	SW19 For batteries transported in accordance with SP 376 SP 377 Category C, unless transported on a short internation
Transport in bulk according to Annay	voyage. H of
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Remarks:	not regulated
ADR	Transportation according to special provision 188
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Remarks:	not regulated
IMDG	Transportation according to special provision 188
Remarks:	not regulated
ΙΑΤΑ	Transportation according to special provision 188
Remarks:	not regulated



(Contd. of page 8)

# Safety Data Sheet acc. to OSHA HCS

Printing date 02/22/2024

Reviewed on 02/22/2024

Trade name: WAKOL Applicator 90

· UN "Model Regulation":

Void

## 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substa Sara Section 355 (extremely hazardous substances):	nce or mixture
1313-13-9 manganese dioxide, ore of Chapter 26	
1313-99-1 nickel monoxide	
1307-96-6 cobalt oxide	
7440-50-8 copper	
7429-90-5 aluminium Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act): 1313-13-9 manganese dioxide, ore of Chapter 26	
1313-99-1 nickel monoxide	
1307-96-6 cobalt oxide	
21324-40-3 Lithiumhexafluorophosphat	
1,1-Difluoroethylene polymer	
7440-50-8 copper	
7429-90-5 aluminium	
616-38-6 dimethyl carbonate	
623-53-0 Carbonate, methyl ethyl	
96-49-1 ethylene carbonate Proposition 65 Chemicals known to cause cancer:	
1313-99-1 nickel monoxide	
1307-96-6 cobalt oxide Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed. Chemicals known to cause developmental toxicity:	
None of the ingredients is listed. <b>New Jersey Right-to-Know List:</b>	
1313-99-1 nickel monoxide	(Contd. on page 1



Printing date 02/22/2024

7440-50-8 copper

Anspruch verbin

Reviewed on 02/22/2024

Trade name: WAKOL Applicator 90

(Contd. of page 9)

7429-90-5 aluminium 616-38-6 dimethyl carbonate · New Jersey Special Hazardous Substance List: 1313-99-1 nickel monoxide: CA 7429-90-5 aluminium: F3. R1 616-38-6 dimethyl carbonate: F3, R1 · Pennsylvania Right-to-Know List: 1313-99-1 nickel monoxide 7440-50-8 copper 7429-90-5 aluminium 616-38-6 dimethyl carbonate 96-49-1 ethylene carbonate · Pennsylvania Special Hazardous Substance List: 1313-99-1 nickel monoxide: ES 7440-50-8 copper: E 7429-90-5 aluminium: E · GHS label elements Void · Hazard pictograms Void · Signal word Void · Hazard statements Void · National regulations: · VOC: VOC (EU) 0.0 g/l VOC (USA): 0.0 g/l / 0.00 lb/gal · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

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

Relevant phrases
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H350 May cause cancer.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.

(Contd. on page 11)

JS -

Printing date 02/22/2024

Reviewed on 02/22/2024

Trade name: WAKOL Applicator 90

	(Contd. of page 10)
H373 May cause damage to organs through prolonged or repeated exposure.	
Contact:	
Date of preparation / last revision 02/22/2024	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agree	ement Concerning the
International Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards	s, Denmark)
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Acute Toxicity - Oral 3: Acute toxicity - Category 3	
Acute Toxicity - Oral 4: Acute toxicity - Category 4	
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A Eye Damage 1: Serious eye damage/eye irritation – Category 1	
Sensitization - Respiratory 1: Respiratory sensitisation – Category 1	
Sensitization - Respiratory 1: Respiratory sensitisation – Category 1 Sensitization - Skin 1: Skin sensitisation – Category 1	
Carcinogenicity 1A: Carcinogenicity – Category 1	
Carcinogenicity 2: Carcinogenicity – Category 2	
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Categ	porv 1
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Categ	
	,o.y =

