otto chemie pvt ltd

An ISO 9001 : 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name : Silver wire, dia 1-2 mm, 99.99% Product Code: S 0165 CAS-No.: 7440-22-4

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet Company identification OTTO CHEMIE PVT LTD 101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Email info@ottokemi.com

1.4. Emergency telephone number Phone no.: + 91 22 2207 0099 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Skin irritation, (Category 2) H315: Causes skin irritation. Serious eve damage, (Category1) H318: Causes serious eye damage. Short-term (acute) aquatic hazard, (Category 1) H400: Very toxic to aquatic life. Long-term (chronic) aquatic hazard. (Category 1) H410: Very toxic to aquatic life with long lasting effects. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard Statements H315 Causes skin irritation. H318 Causes serious eye damage. H410 Precautionary Statements P264 Wash skin thoroughly after handling. Avoid release to the environment. P273 P280 P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 P332 + P313 Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word

Very toxic to aquatic life with long lasting effects.

Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention.

Danger

Causes serious eye damage.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

DISCLAIMER

H318

Hazard Statements

Precautionary Statements P305 + P351 + P338

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Supplemental Hazard

none

Statements 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent. bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Formula : Ag

Molecular weight : 107,87 g/mol	and the second sec	
Component	Classification	Concentration
Silver powder		
CAS-No. 7440-22-4	Aquatic Acute 1; Aquatic	>= 70 - < 90%
EC-No. 231-131-3	Chronic 1; H400, H410	
	M-Factor - Aquatic Acute:	
	100 - Aquatic Chronic:	
	100	

*A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

In case of eve contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Remove contact lenses. If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section

2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given. 5.2 Special hazards arising from the substance or mixture Carbon oxides

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Silver/silver oxides Mixture with combustible ingredients. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Prevent fire extinguishing water from contaminating surface water or the ground water system. **SECTION 6: Accidental release measures** 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of vapours/aerosols or dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. 6.2 Environmental precautions Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with suitable equipment. Dispose of properly. Clean up affected area. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Dry. Storage stabilityRecommended storage temperature 2 - 8 °C Handle and store under inert gas. Do not freeze. Storage class Storage class (TRGS 510): 11: Combustible Solids 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

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Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L **Body Protection** protective clothing Respiratory protection required when dusts/vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK-P The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties a) Physical state b) Color c) Odor d) Melting point/freezing point e) Initial boiling point and boiling range f) Flammability (solid, gas) g) Úpper/lower flammability or explosive limits h) Flash point i) Autoignition temperature i) Decomposition temperature k) pH I) Viscosity m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties

9.2 Other safety information

No data available

Powder No data available No data available No data available

No data available

No data available

No data available

96,1 °C No data available

No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available No data available No data available

No data available No data available No data available No data available

No data available

Not classified as explosive. none

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SECTION 10: Stability and reactivity

10.1 Reactivity
Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.
10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Strong heating.
10.5 Incompatible materials
Oxygen, Strong acids and strong bases
10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available. **SECTION 12: Ecological information** 12.1 Toxicity Mixture No data available 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential

No data available 12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher. 12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7 Other adverse effects No data available Components colloidal silver Toxicity to fish semi-static test LC50 - Pimephales promelas (fathead minnow) - 0,0021 mg/l - 96 h Remarks: (ECOTOX Database) p-Menth-1-en-8-ol . Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - 62,3 mg/l -96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic

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h (OECD Test Guidel Toxicity to algae sta 72 h (OECD Test Guidel	atic test ÉrC50 - Pseudokirchne ine 201) Pseudokirchneriella subcapitata	eriella subcapitata - 124 mg/l -			
SECTION 13: Disp 13.1 Waste treatme No data available	osal considerations ent methods				
SECTION 14: Tran	sport information				
14.1 UN number ADR/RID: 3077		IMDG: 3077	IATA: 3077		
14.2 UN proper shi	oping name	INDG: 3077	IATA: 3077		
ADR/RID:		RDOUS SUBSTANCE, SOLID, N.O.S. (colloidal sil	ver)		
IMDG:		RDOUS SUBSTANCE, SOLID, N.O.S. (colloidal sil			
IATA:		ubstance, solid, n.o.s. (colloidal silver)			
14.3 Transport haza	ard class(es)				
ADR/RID: 9		IMDG: 9	IATA: 9		
14.4 Packaging gro	up		··		
ADR/RID: III		IMDG: III	IATA: III		
14.5 Environmental	nazards	IMDC Marine nellutenti vez	1474.000		
ADR/RID: yes	itiona for upor	IMDG Marine pollutant: yes	IATA: yes		
14.6 Special precau Tunnel restriction co					
Further information	5de . (-)				
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and					
combination packagings containing inner packagings with Dangerous Goods > 5L for liquids					
or > 5kg for solids.					
or y ong for solids.					
SECTION 15: Regu	ulatory information				
15.1 Safety, health and environmental regulations/legislation specific for the					
substance or mixture					
This material safety data sheet complies with the requirements of Regulation (EC) No.					
1907/2006.					
National legislation					
Seveso III: Directive	e 2012/18/EU of the				
European Parliame	nt and of the Council				
on the control of ma	ajor-accident hazards				
involving dangerous					
E1 ENVIRONMEN	TAL HAZARDS				
Other regulations					
Take note of Dir 94/33/EC on the protection of young people at work.					
15.2 Chemical Safety Assessment					
For this product a c	hemical safety assessment wa	s not carried out			
Section 16: Othe	er Information				

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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