OTTO CHEMIE PVT LTD

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MATERIAL SAFETY DATA SHEET

1.Identification 1.1GHS Product identifier Rutin Code R 1380					
2.Hazard identification 2.1Classification of the substance Acute toxicity - Oral, Category 4 2.2GHS label elements, including Pictogram(s)					
			K C		
Signal word Hazard statement(s)	Warning H302 Harmful if swallowed				
Precautionary statement(s)	11002 Harmur II Swallowed				
Prevention	P264 Wash thoroughly afte		21		
Response	sponse P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/\u2026if you feel unwell.				
Storage	P330 Rinse mouth.				
Disposal	P501 Dispose of contents/con	tainer to	1		
2.30ther hazards which do not re	sult in classification				
none					
3.Composition/information on ing					
	redients				
3.1Substances Chemical name Com	mon names and synonyms	CAS number	EC number	Concentration	
3.1Substances Chemical name Com		CAS number 250249-75-3	EC number none	Concentration 100%	
3.1Substances Chemical name Com Rutin trihydrate Rutin 4.First-aid measures Rutin 4.1Description of necessary first-General advice Consult a physician. Show this sail finhaled If inhaled If breathed in, move person into fin case of skin contact Wash off with soap and plenty of In case of eye contact Rinse thoroughly with plenty of wilf swallowed Never give anything by mouth to 4.2Most important symptoms/efference	mon names and synonyms n trihydrate aid measures afety data sheet to the doctor in attendance. resh air. If not breathing, give artificial respir water. Consult a physician. ater for at least 15 minutes and consult a ph an unconscious person. Rinse mouth with w	250249-75-3 ration. Consult a physician. nysician. vater. Consult a physician.			

6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Respiratory protection

Wear dust mask when handling large quantities. Thermal hazards

no data available

9.Physical and chemical properties	
Physical state	no data available
Colour	no data available
Odour	no data available
Melting point/ freezing point	195\u00baC
Boiling point or initial boiling point and boiling	983.1\u00baC at 760mmHg
range	3
Flammability	no data available
Lower and upper explosion limit / flammability	no data available
limit	1.2
Flash point	325.4\u00baC
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water (log value)	no data available
Vapour pressure	0mmHg at 25\u00b0C
Density and/or relative density	1.82g/cm3
Relative vapour density	no data available
Particle characteristics	no data available
10.Stability and reactivity	
10 1Reactivity	

10.3tability and reactivity 10.1Reactivity no data available 10.2Chemical stability Stable under recommended storage conditions. 10.3Possibility of hazardous reactions no data available 10.4Conditions to avoid no data available 10.5Incompatible materials no data available 10.6Hazardous decomposition products no data available

11.Toxicological information Acute toxicity Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available

12. Ecological information 12.1Toxicity Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available Toxicity to microorganisms: no data available 12.2Persistence and degradability no data available 12.3Bioaccumulative potential no data available 12.4Mobility in soil

no data available

12.50ther adverse effects no data available

13.Disposal considerations 13.1Disposal methods Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14.Transport information 14.1UN Number ADR/RID: no data available 14.2UN Proper Shipping Name ADR/RID: no data available IMDG: no data available IATA: no data available 14.3Transport hazard class(es)	IMDG: no data available	IATA: no data available			
ADR/RID: no data available	IMDG: no data available	IATA: no data available			
14.4Packing group, if applicable					
ADR/RID: no data available	IMDG: no data available	IATA: no data available			
14.5Environmental hazards					
ADR/RID: no	IMDG: no	IATA: no			
14.6Special precautions for user					
no data available					
14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code					
no data available					

15.Regulatory information 15.1Safety, health and environmental regulations specific for the product in question

To. Touloty, ficular and c	invitorimental regulations specifie for the product in question		
Chemical name	Common names and synonyms	CAS number	EC number
Rutin trihydrate	Rutin trihydrate	250249-75-3	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.
EC Inventory		Not Listed.	
United States Toxic Substances Control Act (TSCA) Inventory		Not Listed.	
China Catalog of Hazardous chemicals 2015		Not Listed.	
New Zealand Inventory of Chemicals (NZIoC)		Not Listed.	
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed.

Section 16: Other Information

Section 16: Other 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.