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SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revis	sion number: 1		Revision date: 10/03/2018
SECTION 1: Identification of the su	bstance/mixture and of the	e company/undertaking	
1.1 Product identifiers Product name: Product code:	(R)-3-Methylmorpholine Hydro M2847		
1.2 Relevant identified uses of the subs Identified uses:	tance or mixture and uses adv Reagents.	vised against	
1.3 Details of the supplier of the safety of Supplier: TCI EUROPE N.V.	data sheet		
Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht			
Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.	com		
1.4 Emergency telephone number:	+32(0)70 245 245		
SECTION 2: Hazards identification			
2.1 Classification of the substance or m	ixture		
Skin corrosion/irritation		Category 2	
Serious eye damage/eye irritation	(Category 2	
Pictograms or hazard symbols			
Signal word	Warning		
Hazard statements	H315-Causes skin irritation. H319-Causes serious eye irrit		
Precautionary statements	P264-Wash hands and face thoroughly after handling. P280-Wear protective gloves, eye protection. P302+P352+P332+P313+P362+P364-IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. P305+P331+P338+P337+P313-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.		
2.3 Other hazards			
Results of PBT and vPvB assessmen			
PBT:	Not applicable		
vPvB:	Not applicable		
SECTION 3: Composition/informati	on on ingredients		
3.1 Substances	(P) 3 Mothylmorpholine Hydro	chlorido	
Components: Percent:	(R)-3-Methylmorpholine Hydro >98.0%(T)		
CAS RN:	953780-78-4		
Chemical Formula:	55760-76-4 C₅H11NO · HCl		

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SECTION 4: First aid measures	
4.1 Description of first aid measures	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

^{4.2} Most important symptoms and effects, both acute and delayed No data available

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:	Dry chemical, foam, water spray, carbon dioxide.		
5.2 Special hazards arising from the substance or mixture	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride		
5.3 Advice for firefighters	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment		
SECTION 6: Accidental release mea	asures		
6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc		
6.2 Environmental precautions	Prevent product from entering drains		
6.3 Methods and materials for containment and cleaning up	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.		
6.4 Reference to other sections	For disposal see section 13.		
SECTION 7: Handling and storage			
7.1 Precautions for safe handling	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.		
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a refrigerator. Store under inert gas. Protect from moisture. Store away from incompatible materials such as oxidizing agents. Heat-sensitive, Hygroscopic		
7.3 Specific end use(s)	No further relevant information available.		
SECTION 8: Exposure controls/pers	sonal protection		
8.1 Control parameters	No data available		
8.2 Exposure controls	Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.		
Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Dust respirator. Follow local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires.		

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SECTION 9: Physical and chemical properties

10.2 Chemical stability	Stable under proper conditions
10.1 Reactivity	No data available
SECTION 10: Stability and reactivit	y
9.2 Other safety information	No data available
Kinematic viscosity:	No data available
Dynamic Viscosity:	No data available
Decomposition temperature:	No data available
Autoignition temperature:	No data available
n-octanol/water:	
Partition coefficient:	No data available
[Other solvents]	No data available
[Water]	No data available
Solubility(ies):	
Relative density:	No data available
Vapour density:	No data available
Vapour pressure:	No data available.
Upper:	No data available
Lower:	No data available
Flammability or explosive limits:	
Flammability(solid, gas):	No data available
Evaporation rate(Butyl Acetate=1):	No data available
Flash point:	No data available
Boiling point/range:	No data available
Melting point/freezing point:	125°C
pH:	No data available
Odour:	No data available
Colour:	White - Pale yellow
Form:	Crystal - Powder
9.1 Information on basic physical and c Physical state (20°C):	Solid

10.2 Chemical stability	Stable under proper conditions.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

SECTION 11: Toxicological informa	SECTION 11: Toxicological information		
11.1 Information on toxicological effect	5		
Acute Toxicity:	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:			
IARC =	No data available		
NTP =	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		

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SECTION 12: Ecological information	tion
12.1 Toxicity	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	No data available
12.5 Results of PBT and vPvB assess	
PBT:	Not applicable
vPvB:	Not applicable
12.6 Other adverse effects	No data available
SECTION 13: Disposal considera	tions
13.1 Waste treatment methods	
	sult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when
SECTION 14: Transport informati	ion
14.1 UN number	Not listed
14.2 UN proper shipping name	
ADR/RID	Not listed
IMDG/IMO	Not listed
ICAO/IATA	Not listed
14.3 Transport hazard class(es)	
ADR/RID	Does not correspond to the classification standard of the United Nations
IMDG/IMO	Does not correspond to the classification standard of the United Nations
ICAO/IATA	Does not correspond to the classification standard of the United Nations
14.4 Packaging group	
ADR/RID IMDG/IMO	-

14.5 Env			ards		
Mar	ine pollu	itant		-	

14.6 Special precautions for user No data available

SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the Not listed REACH Regulations (EC) No.1907/2006

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15.2 Chemical safety assessment

ICAO/IATA

A chemical safety assessment has not been carried out.

SECTION 16: Other information	
Prepared by:	TCI EUROPE N.V.
Issue date:	10/03/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet