TCI EUROPE N.V.

G

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revi	sion number: 1	R	evision date:	10/03/2018
SECTION 1: Identification of the su	bstance/mixture and of the co	mpany/undertaking		
1.1 Product identifiers				
Product name:	Ethyl Hydrogen Maleate			
Product code:	M0614			
1.2 Relevant identified uses of the subs Identified uses:	tance or mixture and uses advised Reagents.	d against		
1.3 Details of the supplier of the safety Supplier:	data sheet			
TCI EUROPE N.V. 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 Skin corrosion/irritation		gory 2		
Serious eye damage/eye irritation		gory 2		
Signal word	Warning			
Hazard statements	H315-Causes skin irritation.			
Precautionary statements	 H319-Causes serious eye irritation. 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+P351+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/informat	on on ingredients			
3.1 Substances				
Components:	Ethyl Hydrogen Maleate			
Percent:	>95.0%(T)			
CAS RN:	3990-03-2			
EC-No:	223-635-7			
Synonyms:	Maleic Acid Monoethyl Ester , Mor	noethyl Maleate		
Chemical Formula:	C6H8O4			

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: Unsuitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide. Solid streams of water
5.2 Special hazards arising from the substance or mixture	Carbon dioxide, Carbon monoxide
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 me	asures
6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. 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	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. 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
	generation of vapour or mist. Wash hands and face thoroughly after handling. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
7.2 Conditions for safe storage, including any incompatibilities	
	exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Store in a refrigerator. Store away from incompatible materials such as oxidizing agents.
including any incompatibilities 7.3 Specific end use(s)	exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Store in a refrigerator. Store away from incompatible materials such as oxidizing agents. Heat-sensitive No further relevant information available.
including any incompatibilities	exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Store in a refrigerator. Store away from incompatible materials such as oxidizing agents. Heat-sensitive No further relevant information available.
including any incompatibilities 7.3 Specific end use(s) SECTION 8: Exposure controls/per	exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Store in a refrigerator. Store away from incompatible materials such as oxidizing agents. Heat-sensitive No further relevant information available.

SECTION 9: Physical and chemical	properties
9.1 Information on basic physical and cl	nemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Very pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	No data available
Flash point:	No data available
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available.
Vapour density:	No data available
Relative density:	1.18
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available
Partition coefficient:	No data available
n-octanol/water:	
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
	New data and table
9.2 Other safety information	No data available

SECTION 10: Stability and reactivity		
10.1 Reactivity	No data available	
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

SECTION 11: Toxicological information	
11.1 Information on toxicological effects	
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
RTECS Number:	EM6538750

SECTION 12: Ecological informat	ion	
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	ment	
PBT:	Not applicable	
vPvB:	Not applicable	
12.6 Other adverse effects	No data available	
SECTION 13: Disposal considera	tions	
	sult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an bserve all federal, state and local regulations when disposing of the substance.	
SECTION 14: Transport informati	on	
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	

ICAO/IATA	Does not correspond to the classification standard of the United Nations
14.4 Packaging group	
ADR/RID	-
IMDG/IMO	-
ICAO/IATA	-
14.5 Environmental hazards Marine pollutant	-
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

15.2 Chemical safety assessment

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