SAFETY DATA SHEET

GĬ

According to 1907/2006/EC, Article 31

Re	vision number: 1	Revision date: 10/03/2018
	substance/mixture and of the company/underta	aking
1.1 Product identifiers		
Product name:	2-Piperidone	
Product code:	P0455	
1.2 Relevant identified uses of the sul Identified uses:	ostance or mixture and uses advised against Reagents.	
1.3 Details of the supplier of the safet	y data sheet	
Supplier:		
TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht Telephone: +32(0)3 735 07 0	n	
E-mail: sales-eu@tcichemica		
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identificatio 2.1 Classification of the substance or		
	ria for classification in any hazard class according to Re	gulation (EC) No 1272/2008
2.2 Label elements		
Pictograms or hazard symbols	None	
Signal word	No signal word	
Hazard statements	None	
Precautionary statements	None	
2.3 Other hazards		
Results of PBT and vPvB assessme	ent	
PBT:	Not applicable	
vPvB:	Not applicable	
SECTION 3: Composition/informa	ation on ingredients	
3.1 Substances	X	
Components:	2-Piperidone	
Percent:	>98.0%(GC)	
CAS RN:	675-20-7	
EC-No:	211-622-9	
Synonyms:	δ-Valerolactam , 2-Azacyclohexanone	
Chemical Formula:	C₅H₃NO	
SECTION 4: First aid measures		
4.1 Description of first aid measures		
Inhalation:	Remove victim to fresh air and keep at rest in a posi advice/attention if you feel unwell.	tion comfortable for breathing. Get medical
Skin contact:	Remove/Take off immediately all contaminated cloth or rash occurs: Get medical advice/attention.	ing. Rinse skin with water/shower. If skin irritation
Eye contact:	Rinse cautiously with water for several minutes. Ren	
Ingestion:	Continue rinsing. If eye irritation persists: Get medica Get medical advice/attention if you feel unwell. Rinse	al advice/attention. e mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipmer	nt, such as rubber gloves and air-tight goggles.
4.2 Most important symptoms and eff No data available	ects, both acute and delayed	
4.3 Indication of any immediate medic No data available	cal attention and special treatment needed	
		Dogo 4 of
P0455	2-Piperidone	Page 1 of

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)	
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		
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 cool and dark place. Store under inert gas. Protect from moisture. Store away from incompatible materials such as oxidizing agents. 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.	

SECTION 9: Physical and chemical properties			
	9.1 Information on basic physical and chemical properties		
Physical state (20°C):	Solid		
Form:	Crystal		
Colour:	White - Pale reddish yellow		
Odour:	No data available		
pH:	No data available		
Melting point/freezing point:	38°C (Freezing point)		
Boiling point/range:	256°C		
Flash point:	No data available		
Evaporation rate(Butyl Acetate=1):	No data available		
Flammability(solid, gas):	No data available		
Flammability or explosive limits:			
Lower:	1.5%		
Upper:	8.7%		
Vapour pressure:	No data available.		
Vapour density:	No data available		
Relative density:	No data available		
Solubility(ies):			
[Water]	No data available		
[Other solvents]	No data available		
Partition coefficient:	No data available		
n-octanol/water:			
Autoignition temperature:	335°C		
Decomposition temperature:	No data available		
Dynamic Viscosity:	No data available		
Kinematic viscosity:	No data available		
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, Nitrogen oxides (NOx)

SECTION 11: Toxicological information	
11.1 Information on toxicological effects	3
Acute Toxicity:	orl-mus LD50:>1000 mg/kg ivn-mus LD50:600 mg/kg orl-rat LDLo:11 g/kg
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:	TO0110000

	•
SECTION 12: Ecological informat	ION
12.1 Toxicity Fish:	
Fisn: Crustacea:	No data available No data available
	No data available
Algae:	
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
13.1 Waste treatment methods	
	sult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent
	quipped with an afterburner and scrubber system. Observe 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
ΙCAO/ΙΑΤΑ	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