SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

R	evision number: 1		Revision date:	10/03/2018
SECTION 1: Identification of the	substance/mixture and of	the company/undertaking		
1.1 Product identifiers				
Product name:	Amyl Formate			
Product code:	F0049			
1.2 Relevant identified uses of the so Identified uses:	ubstance or mixture and uses Reagents.	advised against		
1.3 Details of the supplier of the safe Supplier:	ety data sheet			
TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht				
Telephone: +32(0)3 735 07 E-mail: sales-eu@tcichemic				
1.4 Emergency telephone number:	+32(0)70 245 245			
SECTION 2: Hazards identificati	on			
2.1 Classification of the substance of	r mixture			
Flammable liquids		Category 3		
Serious eye damage/eye irritatio		Category 2		
Specific target organ toxicity - S	ingle exposure [Category 3]	Respiratory tract irritation		
2.2 Label elements Pictograms or hazard symbols				
Signal word	Warning			
Hazard statements	Warning H226-Flammable liquid and vapour. H319-Causes serious eye irritation. H335-May cause respiratory irritation.			
Precautionary statements	 P261-Avoid breathing mist, vapours or spray. P280-Wear protective gloves, eye protection. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. 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. P370+P378-In case of fire: Use dry chemical or dry sand to extinguish. 			
2.3 Other hazards		-		
Results of PBT and vPvB assess				
PBT:	Not applicable			
vPvB:	Not applicable	Not applicable		

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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Amyl Formate
Percent:	>95.0%(GC)
CAS RN:	638-49-3
EC-No:	211-340-6
Synonyms:	Formic Acid Amyl Ester, Pentyl Formate
Chemical Formula:	C6H12O2

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. Call a POISON CENTER or doctor/physician if you feel unwell. Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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, carbon dioxide. Water (It may scatter and spread fire.)	
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: Keep containers cool by spraying with water. Eliminate all ignition sources 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 extra personal protective equipment (self-contained breathing apparatus). 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 dry sand or inert absorbent before recovering it into an airtight container. 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. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.	
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. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. 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	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.	
7.3 Specific end use(s)	No further relevant information available.	

SECTION 8: Exposure controls/personal protection			
8.1 Control parameters	No data available		
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.		
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.		
Hand protection: Impervious gloves.			
Eye protection:	Safety goggles. A face-shield, if the situation requires.		
Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.			

<	SECTION	9. Physical	and chemical	I properties

9.1 Information on basic physical and chemical properties		
Physical state (20°C):	Liquid	
Form:	Clear	
Colour:	Colorless - Almost colorless	
Odour:	No data available	
pH:	No data available	
Melting point/freezing point:	No data available	
Boiling point/range:	130°C	
Flash point:	32°C	
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:	0.89	
Solubility(ies):		
[Water]	Very slightly soluble	
[Other solvents]		
Miscible:	Ether, Alcohols	
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	
9.2 Other safety information	No data available	

SECTION 1	0: Stability	and reactivity

SECTION TO: Stability and reactivity	
10.1 Reactivity	No data available
10.2 Chemical stability	Stable under proper conditions.
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10.3 Possibility of hazardous reactions	No special reactivity has been reported.
10.4 Conditions to avoid	Spark, Open flame, Static discharge
	opant, open name, etatio alconarge
10.5 Incompatible materials	Oxidizing agents
10.5 Incompatible materials	Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

SECTION 11: Toxicological information

orl-rat LD50:>5 g/kg
skn-rbt LD50:>5 g/kg
ihl-mam LC50:14 g/m ³
skn-rbt 500 mg/24H MLD
No data available
No data available
No data available
No data available
LQ9370000

SECTION 12: Ecological information

12.1 Toxicity			
Fish:	No data available		
Crustacea:	No data available		
Algae:	No data available		
40.0 Development and de verale kility	No data available		
12.2 Persistence and degradability	No data available		
12.3 Bioaccumulative potential	No data available		
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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 assessme PBT:	Not applicable		
vPvB:	Not applicable		
VEVD.	Not applicable		

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport informat	ion
14.1 UN number	1109
14.2 UN proper shipping name	
ADR/RID	Amyl formates
IMDG/IMO	Amyl formates
ICAO/IATA	Amyl formates
14.3 Transport hazard class(es)	
ADR/RID	3: Flammable liquid
IMDG/IMO	3: Flammable liquid
ICAO/IATA	3: Flammable liquid
14.4 Packaging group	
ADR/RID	III
IMDG/IMO	III
ICAO/IATA	III
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		
Water Hazard Classes (WGK) : Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006	Class 2 - Hazard to waters Not listed	
15.2 Chemical safety assessment	A chemical safety assessment has not been carried out.	
SECTION 16: Other information		

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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 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