TCI EUROPE N.V.

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## SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revi	sion number: 1	<b>Revision date: 10/03/2018</b>
SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking	
1.1 Product identifiers		
Product name:	3,4,5-Trifluorobenzonitrile	
Product code:	T2370	
1.2 Relevant identified uses of the subs Identified uses:	tance or mixture and uses advised against Reagents.	
1.3 Details of the supplier of the safety Supplier: TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.		
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identification		
2.1 Classification of the substance or n		
Acute toxicity (Oral)	Category 3	
Acute toxicity (Dermal)	Category 3	
Acute toxicity (Inhalation)	Category 3	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2	
2.2 Label elements Pictograms or hazard symbols		
Signal word	Danger	
Hazard statements Precautionary statements	Danger H301+H311+H331-Toxic if swallowed, in contact with skin or if inhaled. H315-Causes skin irritation. H319-Causes serious eye irritation. P261-Avoid breathing dust/fume/gas/mist/vapours/spray. P280-Wear protective gloves, protective clothing, eye protection. P301+P310+P330-IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. P302+P352+P312+P361+P364-IF ON SKIN: Wash with plenty of soap and water. Call a POISON	
	CENTER or doctor if you feel unwell. Take off immediately all contareuse. P304+P340+P311-IF INHALED: Remove person to fresh air and k POISON CENTER or doctor. P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with contact lenses, if present and easy to do. Continue rinsing. If eye in or attention.	aminated clothing and wash it before eep comfortable for breathing. Call a water for several minutes. Remove
2.3 Other hazards		
Results of PBT and vPvB assessmer		
PBT:	Not applicable	
vPvB:	Not applicable	

3.1 Substances	
Components:	3,4,5-Trifluorobenzonitrile
Percent:	>98.0%(GC)(N)
CAS RN:	134227-45-5
Chemical Formula:	C7H2F3N
SECTION 4: First aid measures	
4.1 Description of first aid measure	S
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
-	Continue rinsing. If eye irritation persists: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	Call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.
	CENTER or doctor/physician.
minalation.	Remove vicinitio resit an and keep at rest in a position connotable for breathing. Oan a resource

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	Carbon monoxide, carbon dioxide etc
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 closed system if possible. 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, 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/per	sonal 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:	Dust 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: Eye protection:	Impervious gloves. 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 properties

9.1 Information on basic physical and ch	nemical properties
Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White - Very pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	47°C
Boiling point/range:	69°C /1.3kPa
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:	No data available
Solubility(ies):	
[Water]	No data available
[Other solvents]	
Soluble:	Methanol
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 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 monoxide, carbon dioxide etc

## SECTION 11: Toxicological information 11.1 Information on toxicological effects

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SECTION 12: Ecological information	
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 <sup>3</sup> /mol):	No data available
12.5 Results of PBT and vPvB assess	sment
PBT:	Not applicable
vPvB:	Not applicable
12.6 Other adverse effects	No data available
SECTION 13: Disposal considera	No data available
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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