

SAFETY DATA SHEET

UnaveraChemLab GmbH Revision date 19-Sep-2014 Version 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier Product Name Product Code EC No CAS No Pure substance/mixture

1-(3-Chlorophenyl)piperazine 71 229-654-7 6640-24-0 Substance

1.2. Relevant identified uses of the substance or mixture and uses advised against For research use only. Not intended for diagnostic or therapeutic use.

1.3. Details of the supplier of the safety data sheet

UnaveraChemLab GmbH Am Ländbach 20 82481 Mittenwald / Germany www.unavera.de info@unavera.de +49 8823 1351 **1.4. Emergency telephone number**

+49 8823 1351

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture <i>Regulation (EC) No 1272/2008</i> This mixture is classified as not hazardous according to regulated	on (EC) 1272/2008 [GHS]
<i>Classification according to 67/548/EEC</i> Hazard symbols R-code(s)	Xn - Harmful Xn;R22 - Xi;R36/37/38
2.2. Label Elements This mixture is classified as not hazardous according to regulate Signal word Symbols/Pictograms	on (EC) 1272/2008 [GHS] Not classified Not classified
Hazard statements	Not classified
2.3. Other Hazards General Hazards	Not applicable

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight	196.68
Formula	C10H13CIN2

3.1 Substances

Chemical Name	EC No	CAS No	weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-(3-Chlorophenyl)pipera zine	Present	6640-24-0	100	Xn;R22 Xi;R36/37/38	-

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer Inhalation artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician. Skin Contact Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required. Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Self-protection of the first aider Use personal protective equipment as required. 4.2. Most important symptoms and effects, both acute and delaved

Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2. Special hazards arising from Specific hazards arising from the	n the substance or mixture Thermal decomposition can lead to release of toxic/corrosive gases and vapors
chemical Hazardous combustion products	Carbon oxides. Phosgene.
5.3. Advice for firefighters	Ŭ
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For emergency responders	Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protection recommended in Section 8.
6.2. Environmental precautions Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.
6.3. Methods and material for co Methods for containment Methods for cleaning up	Prevent further leakage or spillage if safe to do so. Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up.

6.4. Reference to other sections See Section 12: ECOLOGICAL INFORMATION.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Thermal decomposition can lead to release of toxic/corrosive gases and vapors.					
General Hygiene Considerations	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.					
7.2. Conditions for safe storage Storage Conditions	e, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.					
7.3. Specific end use(s) Risk Management Methods (RMM)	The information required is contained in this Material Safety Data Sheet.					

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters Exposure Limits Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. No information available No information available.
8.2. Exposure controls	Chaurer
Engineering Controls	Showers Eyewash stations Ventilation systems
Eye/face protection	Tight sealing safety goggles. Face protection shield.
Skin and Body Protection	Suitable protective clothing. Apron. Gloves made of plastic or rubber.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Appearance	Oil
Odor	No information available
Property pH Melting point/freezing point Boiling point Flash point Density Evaporation rate Upper flammability limits Lower flammability limit Vapor pressure Vapor density Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Explosive properties Oxidizing properties	Values No information available 92.15 °C 336.4 °C 157.2 °C 1.2 g/mL No information available No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity Reactivity	Not applicable
10.2. Chemical stability Stability Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Stable under recommended storage conditions. No information available. No information available.
10.3. Possibility of hazardous re Hazardous polymerization Possibility of Hazardous Reactions	actions No information available. None under normal processing.
10.4. Conditions to avoid Conditions to avoid	Extremes of temperature and direct sunlight.
10.5. Incompatible materials Incompatible materials	Strong oxidizing agents.
10.6 Hererdous decomposition	producto

10.6. Hazardous decomposition products Hazardous Decomposition Products Carbon oxides. Phosgene.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxico	ological effects
Acute toxicity	-
Product Information	Product do
Unknown acute toxicity	0% of the

Product does not present an acute toxicity hazard based on known or supplied information. 0% of the mixture consists of ingredient(s) of unknown toxicity.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity Unknown aquatic toxicity	May cause long lasting harmful effects to aquatic life. 100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.
12.2. Persistence and degradabil Persistence and degradability	•
12.3. Bioaccumulative potential Bioaccumulation	No information available.
12.4. Mobility in soil Mobility	No information available.
12.5. Results of PBT and vPvB as PBT and vPvB assessment	ssessment No information available.
12.6. Other adverse effects Other adverse effects	No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated packaging Do not reuse container. Other Information Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

14.1 UN/ID no 14.2 Proper shipping name 14.3 Hazard Class Subsidiary hazard class / Labels 14.4 Packing Group 14.5 Environmental Hazard 14.6 Special Provisions

RID / ADR Not regulated Not regulated Not regulated Not regulated Not applicable None

IMDG Not regulated Not regulated Not regulated No information available No information available Not regulated Not applicable None

ICAO (air) / IATA

Not regulated Not regulated Not regulated No information available Not regulated Not applicable None

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

All of the components in the product are on the following Inventory lists Europe (EINECS/ELINCS/NLP)

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
1-(3-Chlorophenyl)piperazin	-	-	-	Х	-	-	-	-	-	-
e										

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report No information available

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed R36/37/38 - Irritating to eyes, respiratory system and skin No information available.

Revision note

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet