Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT) Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name Amylamine, 98%+ Product Code A 2361 CAS No: 110-58-7

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet Company identification OTTO CHEMIE PVT LTD No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number Phone no. : + 91 98200 41841 (10 : 00 am - 06 : 00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureFlammable liquids, (Category 2)Acute toxicity, (Category 4)Acute toxicity, (Category 4)Acute toxicity, (Category 4)Skin corrosion, (Sub-category H1B) damage.Serious eye damage, (Category 1)Long-term (chronic) aquatichazard, (Category 3)

H225: Highly flammable liquid and vapor. H302: Harmful if swallowed. H312: Harmful in contact with skin. 314: Causes severe skin burns and eye

H318:Causes serious eye damage.

H412: Harmful to aquatic life with long lasting effects.

lasting effects. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H225 Highly flam H302 + H312 H412 H412 Precautionary Statements P210 Keep away other igniti

P273 P280 protection. P301 + P312 unwell. P303 + P361 + P353

P305 + P351 + P338

Supplemental Hazard Statements none Reduced Labeling (<= 125 ml) Highly flammable liquid and vapor. Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

DISCLAIMER

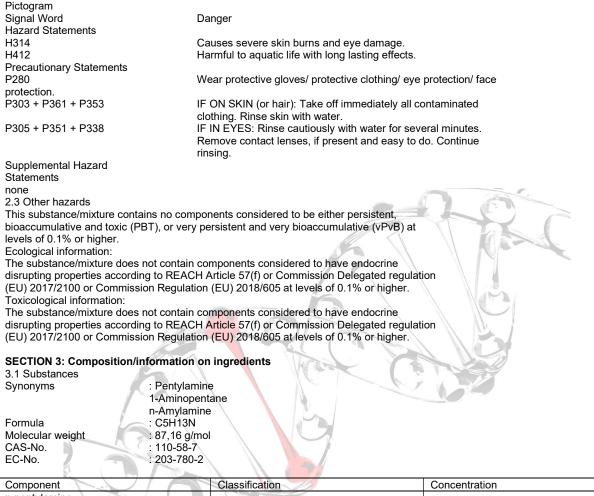
Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT) Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>



n-pentylamine Flam. Liq. 2; Acute Tox. 4; Skin Corr. 1B; <= 100 %	Component	Classification	Concentration
EC-No. 203-780-2 Eye Dam. 1; Aquatic Chronic 3; H225,	n-pentylamine		
11002, 11012, 11010, 11412			<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures
General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled
After inhalation: fresh air. Call in physician.
In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.
Remove contact lenses.
If swallowed

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT) Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise. 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 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 Carbon dioxide (CO2) Foam Dry powder Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given. 5.2 Special hazards arising from the substance or mixture Carbon oxides Nitrogen oxides (NOx) Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. **SECTION 6: Accidental release measures** 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. 6.2 Environmental precautions Do not let product enter drains. Risk of explosion. 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Storage class Storage class (TRGS 510): 3: Flammable liquids 7.3 Specific end use(s)

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT) Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Viton® Minimum layer thickness: 0,7 mm Break through time: 120 min Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M) Body Protection Flame retardant antistatic protective clothing. Respiratory protection Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. Risk of explosion. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state liquid b) Color colorless, light vellow c) Odor No data available d) Melting Melting point/range: -50 °C - lit. point/freezing point e) Initial boiling point 104 °C - lit. and boiling range f) Flammability (solid, No data available gas) g) Úpper/lower Upper explosion limit: 22 %(V) flammability or Lower explosion limit: 2,2 %(V) explosive limits h) Flash point 7 °C i) Autoignition No data available temperature j) Decomposition No data available temperature k) pH No data available I) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: No data available m) Water solubility No data available n) Partition coefficient: No data available n-octanol/water o) Vapor pressure No data available p) Density 0,752 g/cm3 at 25 °C - lit. Relative density No data available

DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT) Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

q) Relative vapor	No data available
density	
r) Particle	No data available
characteristics	
 s) Explosive properties 	No data available
t) Oxidizing properties	No data available
9.2 Other safety information	
No data available	
SECTION 10: Stability and	reactivity
10.1 Reactivity	
Vapors may form explosive r	nixture with air.
10.2 Chemical stability	
	able under standard ambient conditions (room temperature)
10.3 Possibility of hazardous	
	es, nitrates, nitrous acid possible liberation of nitrosamines!
Violent reactions possible wi	th:
Strong oxidizing agents	
acid halides	
Acid anhydrides	
Light metals	
Nitriles	
phenols	
acids 10.4 Conditions to avoid	
Warming.	
10.5 Incompatible materials	
various plastics, Copper, Co	oper alloys
10.6 Hazardous decompositi	
In the event of fire: see secti	
SECTION 12: Ecological in	formation
12.1 Toxicity	
	hales promelas (fathead m <mark>in</mark> now) - 177 mg/l - 96 h
Remarks: (ECOTOX Databa	se)
Toxicity to daphnia	
and other aquatic	
invertebrates	tor floc) 07 170 mm/ 10 h
Remarks: (ECOTOX Databa	ter flea) - 27 - 170 mg/l - 48 h
12.2 Persistence and degrad	
No data available	lability
12.3 Bioaccumulative potent	
No data available	
12.4 Mobility in soil	
No data available	
12.5 Results of PBT and vPv	/B assessment
This substance/mixture contain	ains no components considered to be either persistent,
bioaccumulative and toxic (F	BT), or very persistent and very bioaccumulative (vPvB) at
levels of 0.1% or higher.	
12.6 Endocrine disrupting pr	operties
Product:	
Assessment :	The substance/mixture does not contain components
	considered to have endocrine disrupting properties
	according to REACH Article 57(f) or Commission
	Delegated regulation (EU) 2017/2100 or Commission
40.7 Other a transfer f	Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	ant much ha quaided
Discharge into the environme	

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT) Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

SECTION 13: Disposal considerations

13.1 Waste treatment methods No data available

SECTION 14: Transport information

14.1 UN number				
ADR/RID: 1106	IMDG: 1106	IATA: 1106		
14.2 UN proper shipping name				
ADR/RID: AMYLAMINE				
IMDG: AMYLAMINE				
IATA: Amylamine				
14.3 Transport hazard class(es)				
ADR/RID: 3 (8)	IMDG: 3 (8)	IATA: 3 (8)		
14.4 Packaging group				
ADR/RID: II	IMDG: II	IATA: II		
14.5 Environmental hazards				
ADR/RID: no	IMDG Marine pollutant: no	IATA: no		
14.6 Special precautions for user	- •			
Tunnel restriction code : (D/E)				
Further information : No data available				
SECTION 15: Regulatory information				
15.1 Safety, health and environmental		for the		
substance or mixture				
This material safety data sheet complies with the requirements of Regulation (EC) No.				
1907/2006.				
National legislation				
Seveso III: Directive 2012/18/EU of the				
European Parliament and of the Council				
on the control of major-accident hazards				
involving dangerous substances.				
P5c FLAMMABLE LIQUIDS				
Other regulations				
Observe work restrictions regarding ma	ternity protection in accordance	e to Dir 92/85/EEC or		
stricter national regulations where applicable.				
Take note of Dir 94/33/EC on the protection of young people at work.				
15.2 Chemical Safety Assessment				
For this product a chemical safety assessment was not carried out				
Section 16: Other Information				
This sefety data sheet should be used i	a sentitive diam with the deal at	ante la dense met mentenes theme. The information with		

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

Otto Chemie Pvt Ltd - shall not be responsible for any damage resulting from handling or from contact with the above product.

Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product