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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: 2-Nitro-4-methoxyaniline, 99% Product Code: N 1836 CAS No : 96-96-8

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
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email info@ottokemi.com

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Acute toxicity, (Category 2) Acute toxicity, (Category 2) Acute toxicity, (Category 1) Specific target organ toxicity repeated exposure, (Category 2), Respiratory Tract Long-term (chronic) aquatic hazard, (Category 3) 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H300 + H310 + H330 H373

H412 Precautionary Statements P262 P264 P273 P280 P302 + P352 + P310

P304 + P340 + P310

Supplemental Hazard Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard Statements H412 H300 + H310 + H330 H300: Fatal if swallowed. H330: Fatal if inhaled. H310: Fatal in contact with skin. H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

Danger

Fatal if swallowed, in contact with skin or if inhaled. May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing. IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. none

Danger

Hazard Statements	
H412	Harmful to aquatic life with long lasting effects.
H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled.
	Precautionary Statements
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing.

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none

POISON CENTER/ doctor.

IF ON SKIN: Wash with plenty of water. Immediately call a

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P302 + P352 + P310

P304 + P340 + P310

Supplemental Hazard Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information:

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 Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

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 Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms Formula Molecular weight CAS-No. EC-No.

: 4-Amino-3-nitroanisole
2-Nitro-p-anisidine
: C7H8N2O3
: 168,15 g/mol
: 96-96-8
: 202-547-2

Component	box .	Classification	Concentration
4-methoxy-2-nitroaniline			
CAS-No. 96-96-8		Acute Tox. 2; Acute Tox. 1; STOT RE 2;	<= 100 %
EC-No. 202-547-2		Aquatic Chronic 3; H300, H330, H310,	
		H373, H412	

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. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

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. Call in ophthalmologist. Remove contact lenses.

If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal

(20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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

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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media Water Foam Carbon dioxide (CO2) 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. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. 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 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: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. 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. 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 carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling Advice on safe handling Work under hood. Do not inhale substance/mixture. 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 Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Storage class Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials 7.3 Specific end use(s) 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

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Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

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Skin protection

Skin protection	
This recommendation applies only to the product stated in the	
supplied by us and for the designated use. When dissolving	in or mixing with other
substances and under conditions deviating from those stated	d in EN 16523-1 please
contact the supplier of CE-approved gloves (e.g. KCL GmbH	I, D-36124 Eichenzell,
Internet: www.kcl.de).	
Full contact	
Material: Nitrile rubber	
Minimum layer thickness: 0,11 mm	
Break through time: 480 min	
Material tested:KCL 741 Dermatril® L	
This recommendation applies only to the product stated in th	na aafatu data ahaat
supplied by us and for the designated use. When dissolving	
substances and under conditions deviating from those stated	
contact the supplier of CE-approved gloves (e.g. KCL GmbH	I, D-36124 Elchenzell,
Internet: www.kcl.de).	
Splash contact	
Material: Nitrile rubber	
Minimum layer thickness: 0,11 mm	
Break through time: 480 min	
Material tested:KCL 741 Dermatril® L	
Body Protection	
protective clothing	
Respiratory protection	
required when dusts are generated.	
Our recommendations on filtering respiratory protection are I	based on the following
standards: DIN EN 143, DIN 14387 and other accompanying	
the used respiratory protection system.	
Recommended Filter type: Filter type P3	
The entrepeneur has to ensure that maintenance, cleaning a	and testing of respiratory
protective devices are carried out according to the instruction	
These measures have to be properly documented.	is of the producer.
Control of environmental exposure	
Do not let product enter drains.	
SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
a) Physical state	powder
b) Color	dark red
c) Odor	No data available
d) Melting	Melting point/range: 123 - 126 °C - lit.
point/freezing point	
e) Initial boiling point	No data available
and boiling range	
f) Flammability (solid,	No data available
gas)	
g) Úpper/lower	No data available
flammability or	
explosive limits	
h) Flash point	480 °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
i) visoosity	Viscosity, dynamic: No data available
m) Water colubility	No data available
m) Water solubility	
n) Partition coefficient:	
n-octanol/water	Les Deux 4.04 et 05.80. Dissession define is met son (1.1
	log Pow: 1,94 at 25 °C - Bioaccumulation is not expected.

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o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties	No data available No data available No data available No data available No data available
t) Oxidizing properties 9.2 Other safety information No data available	none
SECTION 10: Stability and reactivity 10.1 Reactivity Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be The following applies in general to flammable organic substi- correspondingly fine distribution, when whirled up a dust explo- be assumed. 10.2 Chemical stability The product is chemically stable under standard ambient co 10.3 Possibility of hazardous reactions Violent reactions possible with: Reducing agents acid halides Acid anhydrides acids 10.4 Conditions to avoid Strong heating. 10.5 Incompatible materials No data available 10.6 Hazardous decomposition products In the event of fire: see section 5	ances and mixtures: in olosion potential may generally
SECTION 11: Toxicological information 11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Ey Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/k Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: O Other Toxic Effects on Humans: Hazardous in case of skin of Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans: Not availad Special Remarks on other Toxic Effects on Humans: Not availad	kg Classified None. by NTP, None. by OSHA, None. by NIOSH. contact (irritant), of inhalation (lung irritant). ble.
SECTION 12: Ecological information 12.1 Toxicity Toxicity to fish LC50 - Danio rerio (zebra fish) - 71 - 100 mg. Remarks: (Hommel) 12.2 Persistence and degradability Biodegradability Result: < 1 % - Not readily biodegradable. (OECD Test Guideline 301D) 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil	/l - 96 h

No data available 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

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levels of 0.1% or higher. 12.6 Endocrine disrupting properties Product: : The substance/mixture does not contain components Assessment considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7 Other adverse effects Discharge into the environment must be avoided. **SECTION 13: Disposal considerations** 13.1 Waste treatment methods No data available **SECTION 14: Transport information** 14.1 UN number ADR/RID: 2811 IMDG: 2811 IATA: 2811 14.2 UN proper shipping name ADR/RID : TOXIC SOLID, ORGANIC, N.O.S. (4-methoxy-2-nitroaniline) IMDG TOXIC SOLID, ORGANIC, N.O.S. (4-methoxy-2-nitroaniline) IATA : Toxic solid, organic, n.o.s. (4-methoxy-2-nitroaniline) 14.3 Transport hazard class(es) IMDG: 6.1 ADR/RID: 6.1 IATA: 6.1 14.4 Packaging group IMDG: II ADR/RID: 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 regulations/legislation specific 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 H1 ACUTE TOXIC European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Other regulations Observe work restrictions regarding maternity protection in accordance 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 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.

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