SAFETY DATA SHEET



4-CHLOROBENZALDEHYDE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:-	104-88-1
EC number:	203-247-4
1.2 SYNONYMS:	Para-chlorobenzaldehyde4-chloro-benzaldehyde
	p-Chlorobenzaldehyde

SECTION 2: Hazards identification:

2.1 Classification of the	Classification according to
substance or mixture:	Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements: Hazard Pictograms:	Labelling according to Regulation (EC) No 1272/2008
	\vee
Signal Word:	Danger
Hazard statements:	H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects.



	<u> </u>
Precautionary Statements:	P261: Avoid breathing dust. P273: Avoid release to the environment. P280: Wear protective gloves/ eye protection/ face protection. P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P302 + P352: IF ON SKIN: Wash with plenty of water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405: Store locked up. P501: Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, coughing, and difficulty breathing, and prolonged exposure can lead to more severe effects on the respiratory system.
Ingestion:	can cause nausea, vomiting, abdominal pain, and may lead to more serious gastrointestinal and systemic effects if consumed in large amounts.
Skin Contact:	may cause irritation, redness, and dryness, and prolonged or repeated exposure could lead to more severe skin reactions
Eye contact:	may cause irritation, redness, pain, and watering, and prolonged exposure could lead to more serious eye damage.
Chronic Exposure:	may lead to respiratory issues, skin sensitization, and potential damage to the liver or kidneys, depending on the level and duration of exposure.



Aggravation of pre-existing	Aggravation of pre-existing
conditions:	conditions such as asthma,
	respiratory disorders, or skin
	conditions (like eczema) may occur
	with exposure to 4-
FOTE	chlorobenzaldehyde, potentially
-511	worsening symptoms or triggering
LOIL	flare-ups

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 104-88-1
	4-CHLOROBENZALDEHYDE
Identification number(s):	EC number: 203-247-4

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into
	fresh air. If not breathing, give
	artificial respiration. Consult a
	physician.
After skin contact:	Remove contaminated clothing
	immediately. Wash with soap and
	water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty
	of water for at least 15 minutes.
AUIID GHEWI	Remove contact lenses if any.
TUUN UNLIVI	Consult a physician.
After swallowing:	Rinse mouth with water.
	Immediately after ingestion. If
	conscious, make victim drink two
	glasses at most immediately. Never
	give anything by mouth to an



	unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute exposure may cause respiratory irritation, skin and eye irritation, and gastrointestinal distress, while delayed effects
	could include chronic respiratory
	issues or skin sensitization with
	prolonged or repeated exposure.
4.3 Indication of any immediate	Treat symptomatically.
medical attention and special	
treatment needed:	

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Water spray, Carbon dioxide. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides, hydrogen chloride gas.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions,	Use personal protective
protective equipment and	equipment.
emergency procedures:	Avoid breathing vapors, mist or
YOUR CHEMI	gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into
	drains.



6.3 Methods and material for	Take up spill into absorbent
containment and cleaning up:	material, e.g.: sand, earth,
	vermiculite, powdered limestone.
	Scoop absorbed substance into
	closing containers. Spill must not
FOTO	return in its original container.
-511	Clean the excess spill with water.
LOID	Wash clothing and equipment
	after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material
	Do not use in confined spaces.
	Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage,	Store in original containers.
including any incompatibilities:	Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. Do not handle in flammable atmospheres.
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
	Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available



SECTION 8: Exposure controls/personal protection

91 Control parameters	
8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good
	industrial hygiene and safety
E91 N	practice. Wash hands before
	breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks,
	wearing anti chemical gloves,
	rubber gloves, etc.
General protective and hygienic	Eyes, body and hand protection,
measures:	maintain indoor air unobstructed.
illeasules.	
	Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be
	inspected prior to use. Use proper
	glove removal technique (without
	touching glove's outer surface) to
	avoid skin contact with this
	product. Dispose of contaminated
	gloves after use in accordance with
	applicable laws. Wash and dry
	hands.
	Eye protection: Required
Bulleti's (B. I	
Protection of Body:	Complete suit protecting against
	chemicals, Flame retardant
	antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	OAL FAITHE
Appearance: Form:	Crystalline solid
Colour:	Pale yellow to off white
Odour:	Mild, aromatic like.
pH-value:	No data available



Melting point/Melting range:	47°C
Boiling point/Boiling range:	254°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	460°C
Decomposition temperature:	No data available
Self-igniting:	None
Flash point:	121°C
Danger of explosion:	None
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	0.004 mmHg at 25°C
Density at 20 °C:	1.245 g/cm ³
Relative density:	1.245
Vapour density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with-	Slightly Soluble
·water at 20 °C:	
Partition coefficient:(n-	3.16
octanol/water)	
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	Stable at room temperature
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	Can cause violent reactions with
reactions	strong oxidizers and reducing
	agents.
10.4 Conditions to avoid	High temperatures, Heat, flames.
10.5 Incompatible materials	Strong oxidizing agents, strong
TUUN UNEWI	bases, strong reducing agents.
10.6 Hazardous decomposition	Carbon monoxide, carbon dioxide,
products	hydrogen chloride gas.



SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 840 mg/kg LD50 (Dermal, Rabbit): 5.000 mg/kg LC50 (Inhalation Rat): 0.2 mg/l (4 hr)
Skin corrosion/Irritation:	Causes serious skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity -	No data available
repeated exposure:	
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	Readily Biodegradable

SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): 2.2 mg/l (96hr)
Aquatic toxicity:	EC50(daphnia): no data available
	ErC50(algae): 15.8 mg/l (72hr)
12.2 Persistence and	Readily Biodegradable
degradability:	
12.3 Bioaccumulative potential:	High bioaccumulative
12.4 Mobility in soil:	Low mobility
12.5 Other adverse effects:	No data available



SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Isopropyl alcohol, acetone, water
	and detergent, sand.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	3077
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	4-CHLOROBENZALDEHYDE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	9
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	Yes, harmful to aquatic life
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is not classified in
regulations/legislation specific	listed substance.
for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances:	This substance is not listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make



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