

	INDOLE-3-BUT		MATERIAL SAFETY DATA SHEET
	CAS NO 133-32-4		SDS/MSDS
	Product identifiers	he substance/mixture a	and of the company/undertaking
	Product name	Indole-3-Butyric	Acid
	CAS-No.	: 133-32-4	
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	: Laboratory chemic	als, Industrial & for professional use only.
1.3	Details of the supplier of	the safety data sheet	
	Company		& Solvents Pvt. Ltd Industrial Estate, Opp Mittal Estate ad, Andheri (E), Mumbai - 400050
	Telephone Email	: +91 22 4928 4000 : <u>sales@pallavcher</u>	
1.4	Emergency telephone nu Emergency Phone #) (9:00am - 6:00 pm) [Office hours]
SEC	CTION 2: Hazards identific	ation	
2.1	Classification of the substance or mixture		
	Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 3), H301 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H335		
	For the full text of the H-Statements mentioned in this Section, see Section 16.		this Section, see Section 16.
2.2	Label elements		

Label elements **Z.Z**

Labelling according Regulation (EC) No 1272/2008 Pictogram

Signal word	Danger
Hazard statement(s)	
H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: 4-(3-Indolyl)butanoic acid 4-(3-Indolyl)butyric acid IBA
Formula	: C12H13NO2
Molecular weight	: 203.24 g/mol
CAS-No.	: 133-32-4
EC-No.	: 205-101-5

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

4-(Indol-3-vl)butvric acid

-(Indol-3-yl)butyric a	acia		
CAS-No.	133-32-4	Acute Tox. 3; Skin Irrit. 2; Eye <= 100 %	
EC-No.	205-101-5	Irrit. 2; STOT SE 3; H301,	
		H315, H319, H335	

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

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Concentration

5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)

- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C Storage class (TRGS 510): Combustible solids, toxic

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

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

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

Skin protection

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 and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: beige
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 124.0 - 125.5 °C
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
	ner safety information data available	

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

No data available

10.2	Chemical stability Stable under recommended storage conditions.			
10.3	Possibility No data av	of hazardous reactions /ailable		
10.4	Conditions			
10.5		ble materials dizing agents, Strong bases		
10.6	Hazardous (NOx) Oth	decomposition products s decomposition products formed under fire conditions Carbon oxides, Nitrogen oxides er decomposition products - No data available nt of fire: see section 5		
SECT	ION 11: To	xicological information		
11.1 Information on toxicological effects				
	Acute tox LD50 Oral	icity - Mouse - 100 mg/kg(4-(Indol-3-yl)butyric acid)		
		Skin corrosion/irritation No data available(4-(Indol-3-yl)butyric acid)		
Serious eye damage/eye irritation No data available(4-(Indol-3-yI)butyric acid) Respiratory or skin sensitisation No data available(4-(Indol-3-yI)butyric acid) Germ cell mutagenicity Human(4-(Indol-3-yI)butyric acid) leukocyte Other mutation test systems Carcinogenicity				
		(Indol-3-yl)butyric acid)		
		enicity		
	IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
Reproductive toxicit No data available(4-(I		t ive toxicity /ailable(4-(Indol-3-yl)butyric acid)		
	-	Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.(4-(Indol-3-yl)butyric acid)		
	Specific t No data a	t arget organ toxicity - repeated exposure vailable		
	Aspiratio No data a	n hazard vailable(4-(Indol-3-yl)butyric acid)		

Additional Information RTECS: NL5250000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(4-(Indol-3-yl)butyric acid)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - > 90.5 mg/l - 96 h(4-(Indol-3yl)butyric acid)

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 57 mg/l - 48 h(4-(Indol-3-yl)butyric acid) other aquatic

invertebrates

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential No data available

NO Gata available

12.4 Mobility in soil No data available(4-(Indol-3-yl)butyric acid)

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Harmful to aquatic life.

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN number ADR/RID: 2811	IMDG: 2811	IATA: 2811
14.2	ADR/RID: TOXIC SOLID, ORGAN IMDG: TOXIC SOLID, ORGA	IIC, N.O.S. (4-(Indol-3-yl)butyric acid NIC, N.O.S. (4-(Indol-3-yl)butyric acid o.s. (4-(Indol-3-yl)butyric acid)	
14.3	Transport hazard class(es)		
	ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1
14.4	Packaging group ADR/RID: III	IMDG: III	IATA: III
		IMDG. III	
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
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
- This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. **15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.