SAFETY DATA SHEET

Create Date: 2020-09-23

SECTION 1: COMPANY AND PRODUCT INFORMATION

1.1 Product identifiers

Product name	:	Indole-3-Carboxylic Acid
Cat. Number	:	ZXB-01-123
CAS number	:	771-50-6
Synonyms	:	Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, manufacture of substances

1.3 Details of the supplier of the safety data sheet

Address	:	Hinter den Gärten 56 89173 Lonsee Deutschland
Email	:	info@zellx.de
Phone	:	+49(0)731 55211521
Fax	:	+49(0)731 55211719

1.4 Emergency telephone number

Emergency phone	:	+49(0)731 55211521

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Substance/mixture is not classified as hazardous.

2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not classified as hazardous under the GHS.

2.3 Label elements and precautionary statements

Pictogram	:	Not available
Signal word	:	Not available
Hazard statement(s)	:	No applicable hazard statements.
Precautionary statement(s)	:	Not a hazardous substance or mixture.

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

Not available

2.5 NFPA Rating

Health hazard	:	0
Fire hazard	:	0
Reactivity hazard	:	0

2.6 HMIS Rating

Health hazard	:	0
Chronic health hazard	:	0
Reactivity hazard	:	0
Flammability	:	0
Physical hazard	:	0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance	CAS#	EC#	Concentration
Indole-3-carboxylic acid M.F: $C_9H_7NO_2$ M.W: 161.16 g/mol	771-50-6	212-231-6	Not available

3.2 Hazardous components & classification

No ingredients are hazardous according to OSHA criteria.
No components need to be disclosed according to the applicable regulations.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Not available

In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Consult a physician if symptoms are severe or persistent.

In case of ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling section.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment indicated. Provide treatment in accordance with exhibited systems.

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide are suitable

5.2 Unsuitable extinguishing media

Not available

5.3 Special hazards arising from the substance

Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus

5.4 Advice for firefighters

Wear protective gear, such as self-contained breathing apparatus, if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8

6.2 Environmental precautions

Prevent product from entering public sewers and waterways.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

For proper 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. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in cool, well ventilated area. Keep container tightly closed. Light Sensitive. Product is hygroscopic. Take precautions to avoid contact with atmospheric moisture. Store under Argon. Store at -20 °C
Incompatible materials	:	Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values. Hazardous components without workplace control parameters

8.2 Engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

8.3 Personal protective equipment

Eye/face protection	:	Safety glasses with side-shields conforming to EN166 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 a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a 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.
General hygiene considerations	:	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	:	Not available
b)	Physical states	:	Solid
c)	Odor	:	Not available
d)	Odor threshold	:	Not available
e)	Melting point	:	Melting point/range: 215 °C (419 °F)
f)	Boiling point range	:	Not available
g)	pH	:	Not available
h)	Density	:	Not available
i)	Flash point	:	> 100 °C (> 212 °F)
j)	Evaporation rate	:	Not available
k)	Flammability	:	Not available
l)	Upper/lower flammability or explosive limits:	:	Not available
m)	Vapor pressure	:	Not available
n)	Vapor density	:	Not available
o)	Relative density	:	Not available
p)	Water solubility	:	Not available
q)	Partition coefficient:n-octanol/water	:	Not available
r)	Autoignition temperature	:	Not available

s)	Decomposition temperature	:	Not available
t)	Kinematic viscosity	:	Not available
u)	Explosive properties	:	Not available
v)	Oxidizing properties	:	Not available
w)	Solubility in other solvents	:	Not available
x)	Surface tension	:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity is known. Non-reactive under normal use.

10.2 Chemical stability

Product is stable when stored as recommended.

10.3 Stability note(s)

No special or unusual instability known.

10.4 Polymerization

No known polymerization possible.

10.5 Possibility of hazardous reactions

No known hazardous reactions are possible.

10.6 Incompatible materials

Strong oxidizing agents

10.7 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50 Oral	:	LD50 Oral - Rat - 1,620 mg/kg
LD50 Dermal	:	LD50 Dermal Rat- 1,380 mg/kg
LC50 Inhalation	:	LC50 Inhalation - Rat- 4 h - 1,260 mg/m3

11.2 Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation

11.3 Serious eye damage/eye irritation

Eye - Rabbit Result: No eye irritation

11.4 Respiratory or skin sensitization

No sensitization data available.

11.5 Germ cell mutagenicity

No mutagenicity data available.

11.6 Carcinogenicity

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.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.7 Reproductive toxicity

Presumed human reproductive toxicant
Reproductive toxicity - Rat - Oral

11.8 Specific target organ toxicity – single exposure

No specific organ toxicity data available.

11.9 Specific target organ toxicity – repeated exposure

May cause damage to organs through prolonged or repeated exposure.

11.10 Aspiration hazard

No aspiration hazard data available.

11.11 Additional Information

RTECS: EK7713600
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No ecological toxicity data available.

12.2 Aquatic toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 710 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 560 mg/l - 48 h

12.3 Persistence and degradability

No persistence/degradability data available.

12.4 Bioaccumulative potential

No bioaccumulation data available.

12.5 Mobility in soil

No soil mobility data available.

12.6 Results of PBT and vPvB assessment

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

12.7 Other adverse effect

No other adverse effect data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Packaging

Dispose of as unused product.

13.3 Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 DOT (US)

Not dangerous goods

14.2 IMDG

Not dangerous goods

14.3 IATA

Not dangerous goods

SECTION 15: REGULATORY INFORMATION

15.1 SARA

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

15.2 Clean water act (CWA)

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

15.3 Right to know components

Massachusetts	:	No chemicals are present which require disclosure under the Massachusetts Right to Know Act.
Pennsylvania	:	Glufosinate ammonium CAS-No.77182-82-2
New Jersey	:	Glufosinate ammonium CAS-No.77182-82-2
California proposition 65 components	:	This product contains no chemicals which are known to the State of California to cause cancer, or birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

16.1 Disclaimer

This product is offered by zellx-biochem.com for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall zellx-biochem.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect,incidental,consequential or exemplary damages, howsoever arising, even if zellx-biochem.com has been advised of the possibility of such damages.

16.2 Copyright

16.2 Preparation Information

Create Date: 2020-09-23