

Indole-3-Carbinol Safety Data Sheet

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

1.1 Product identifier

Product name: **Indole-3-Carbinol**
CAS No.: **700-06-1**
Catalogue number: **8038**

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

Relevant identified uses
Identified uses: Laboratory chemicals. Manufacturing of substances.
Uses advised against: None.

1.3 Details of the supplier of the safety data sheet:

Supplier:

Designed Nutritional Products Telephone: (801) 224-4518
1199 S. 1480 W. Fax: (801) 434-8270
Orem, UT 84058 Internet: www.designednutritional.com
Email: customerservice@designednutritional.com

1.4 EMERGENCY TELEPHONE NUMBER:

(801) 224-4518 – 9:00 am – 5:00 pm MST

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

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

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

2.2 GHS Label elements, including precautionary statements.

Pictogram:



Signal word: **Warning**

Hazard statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3. Composition/information on ingredients

3.1 Substances

Substance name: **Indole-3-Carbinol**
Synonyms: **I3C; 3-Indolemethanol.**
CAS No: **700-06-1**
EC-No. **211-836-2**
Formula: **C₉H₉NO**
Molecular weight: **147.18 g/mol**
Hazardous components: **3 Hydroxymethylindole**
Classification: **Skin Irrit.: 2; Eye irrit. 2A; H315, H319.**
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. Move out of dangerous area.

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. 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.

5.2 Special hazards arising from the substance or mixture.

Carbon oxides, nitrogen oxides (NO_x).

5.3 Advice for fire-fighters.

Wear self contained breathing apparatus for the fire fighting if necessary.

5.4 Further information.

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. 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.

6.3 Methods and material 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. Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well ventilated area.

Recommended storage temperature: 2 - 8 °C

Light sensitive.

7.3 Specific end uses:

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.

Components with workplace control parameters.

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls:

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

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:

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Solid
b) Odour	No data available
c) Odour threshold	No data available
d) pH	No data available
e) Melting point / freezing point	Melting point/range: 96 – 99°C (205-210°F) – lit.
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
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	log Pow: 4.439
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

9.2 Other safety information:

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid:

No data available

10.5 Incompatible materials:

Strong oxidizing agents.

10.6 Hazardous decomposition products:

Other decomposition products - No data available

In the event of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data available

Inhalation: No data available.

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage / eye irritation: No data available

Respiratory tract/skin Sensitization: No data available

Germ cell mutagenicity: No data available

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 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 carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available

Reproductive toxicity-rat-oral: **Effects on newborn:** Delayed effects.

Specific target organ toxicity (single exposure): No data available.

Specific target organ toxicity (repeated exposure): No data available.

Aspiration hazard: No data available

Additional information: RTECS: NL9483000

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 data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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:

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

SECTION 15: Regulatory information

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right To Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
3-Hydroxymethylindole	700-06-1	

New Jersey Right to Know Components

	CAS-No.	Revision Date
3-Hydroxymethylindole	700-06-1	

California Prop. 65 Components

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16: Other information

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

Eye Irrit.	Eye irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irrit.	Skin irritation

HMIS Rating

Health Hazard:	2
Chronic Health Hazard:	2
Flammability:	0
Physical Hazard:	0

NFPA Rating

Health Hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information:

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, HOWEVER, NO WARRANTY IS MADE, EITHER EXPRESSED OR IMPLIED, REGARDING ITS ACCURACY OR THE RESULTS TO BE OBTAINED FROM THE USE OF SUCH INFORMATION. DESIGNED NUTRITIONAL PRODUCTS SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.