Safety Data Sheet

Indigo carmine

Version: V2.0.0.1

Report No.: BWJ5338-2016-MSDS-US

Creation Date: 2025/10/10

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1	Identification
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| Product identifier

Product Name	Indigo carmine
Cat No.	BWJ5338-2016
CAS No.	860-22-0
EC No.	212-728-8
Molecular Formula	C16H10N2Na2O8S2

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

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Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emergency phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral	Category 4
Sensitization - skin	Category 1
Serious eye damage/irritation	Category 2
Sensitization - respiratory	Category 1
Germ cell mutagenicity	Category 2

Label elements

Hazard pictograms Signal word Danger

Hazard statements

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects

| Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284	In case of inadequate ventilation wear respiratory protection.
A Posponso	

Response

P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	, ,

Storage

P405	Store locked up.
A Diamanal	

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

	No information available
Health hazards	
	Inhaled Inhalation of dusts or fumes may cause allergy or asthma symptoms or breathing

	difficulties if inhaled.
Ingestion	Accidental ingestion of the product may be harmful.
Skin Contact	The product may cause an allergic skin reaction following direct contact with the skin.
Eye	This product may cause serious eye irritation. Severe inflammation may be expected with pain following direct contact with the eye.
 Environmental hazards 	
	Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
Disodium 5,5'-(2-(1,3-dihydro-3-oxo- 2H-indazol-2-ylidene)-1,2- dihydro-3H-indol-3-one)di sulphonate	860-22-0	212-728-8	94.2

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the
General advice	· · · · · · · · · · · · · · · · · · ·
	doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a
	physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of
	soap and water for at least 15 minutes and consult a physician if feel
	uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or
mgc stron	
	Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth
	to mouth resuscitation if victim ingested or inhaled the substance. If not breathing,
	give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take
i lote of the stratuers	·
	precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.
- Fire-fighting measures

| Extinguishing media

Suitable extinguishing media Use extinguishing media suitable for surrounding area.

Unsuitable extinguishing media

There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

- 1 Development of hazardous combustion gases or vapor possible in the event of fire.
- 2 May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment, do not breathe dust/fume.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 Cut off the source of the leak as much as possible.
- 2 Keep leaks in a ventilated place.
- 3 Isolation of contaminated areas and restrictions on access.
- 4 It is recommended that emergency personnel wear dust masks.
- Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
 - Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7 Handling and storage

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Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

| Control parameters

Occupational Exposure limit	No relevant regulations
values	

| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Thyological and one mical properties			
Appearance (physical state,	Dark green powder		
color, etc.)			
Odor	No information available		
Odor threshold	No information available		
рН	No information available		
Melting point/freezing point(°C)	340		
Initial boiling point and boiling	No information available		
range(°C)			
Flash point(Closed cup,°C)	Not applicable		
Evaporation rate	Not applicable		
Flammability	No information available		
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available		
Vapor pressure	3.16E-22mmHg (25°C)		
Vapor density(Air = 1)	Not applicable		
Relative density(Water=1)	0.666 (20 °C)		
Solubility	1000mg/L (26.6 °C)		
n-octanol/water partition	-3.57		
coefficient			
Auto-ignition temperature(°C)	No information available		
Decomposition temperature(°C)	No information available		
Kinematic viscosity	Not applicable		

10 Stability and reactivity

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| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other
1.00011119	chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous	No information available.
reactions	
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Disodium	2000mg/kg(Rat)	No information available	No information available
5,5'-(2-(1,3-dihydro-3-oxo-			
2H-indazol-2-ylidene)-1,2-			
dihydro-3H-indol-3-one)di			
sulphonate			

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Disodium	Not Listed	Not Listed	Not Listed
5,5'-(2-(1,3-dihydro-3-oxo-			
2H-indazol-2-ylidene)-1,2-			
dihydro-3H-indol-3-one)di			
sulphonate			

Others

Disodium 5,5'-(2-(1,3-dihydro-3-oxo-2H-indazol-2-ylidene)-1,2-dihydro-3H-indol-3-one)disulphonate(Component)		
Skin corrosion/irritation Based on available data, the classification criteria are not met		
Serious eye damage/irritation	Causes serious eye irritation(Category 2)	
Skin sensitization	May cause an allergic skin reaction(Category 1)	
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled(Category 1)	
Reproductive toxicity	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	Suspected of causing genetic defects(Category 2)	

12 Ecological information

| Acute aquatic toxicity

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	Acute aquatic toxicity	No information available

| Chronic aquatic toxicity

C	hronic	aquatic	toxicity	No	information	available

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Disodium	High	High
5,5'-(2-(1,3-dihydro-3-oxo-		
2H-indazol-2-ylidene)-1,2-		
dihydro-3H-indol-3-one)di		
sulphonate		

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Disodium	Low	Log Kow=-0.9914
5,5'-(2-(1,3-dihydro-3-oxo-		
2H-indazol-2-ylidene)-1,2-		
dihydro-3H-indol-3-one)di		
sulphonate		

| Mobility in soil

Component	log Koc	Remark
Disodium	1.996	
5,5'-(2-(1,3-dihydro-3-oxo-		
2H-indazol-2-ylidene)-1,2-		
dihydro-3H-indol-3-one)di		
sulphonate		

13 Disposal considerations

| Disposal considerations

Disposal recommendations	and ignition source of fire. Return to supplier for recycling if possible. Refer to section waste chemicals and contaminated packaging.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot
	regulation. Recommend the use of incineration disposal.
Waste chemicals	Before disposal should refer to the relevant national and local laws and

Transport information

Label and Mark

Transporting Label	Not applicable
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IMDG-CODE

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| IATA-DGR

IATA-DGR	NOT REGULATED	FOR TRANSPORT	OF DANGEROUS	GOODS

UN-ADR

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UN-ADR	NOI REGULATED	FUR IRANSPURI	OF DANGEROUS	GUUUS

Transport in bulk according to IMO instruments

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◆Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15 Regulatory information

International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	М
Disodium 5,5'-(2-(1,3-dihydro-3-oxo- 2H-indazol-2-ylidene)-1,2- dihydro-3H-indol-3-one)di sulphonate	√	V	√	V	√	V	√	√	√	×	√	√	√

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
Disodium	×	×	×
5,5'-(2-(1,3-dihydro-3-oxo-			
2H-indazol-2-ylidene)-1,2-			
dihydro-3H-indol-3-one)di			
sulphonate			

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Disodium	×	×	×	×	×	×	×	×

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5,5'-(2-(1,3-dihydro-3-oxo				
-2H-indazol-2-ylidene)-1,				
2-dihydro-3H-indol-3-one				
disulphonate				

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/10
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- $[5] \qquad \text{NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.} \\$
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. 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 their independent judgment of suitability of this information for their particular purposes. We do not assume

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responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.