Safety Data Sheet

12 Mix of nitrophenol in dichloromethane

Version: V2.0.0.1

Report No.: BWQ9343-2016-MSDS-US

Creation Date: 2025/10/12

Revision Date: -



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

1	Identification
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| Product identifier

Product Name	12 Mix of nitrophenol in dichloromethane
Cat No.	BWQ9343-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

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

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

Carcinogenicity | Category 2

Label elements

Hazard pictograms



Signal word

Warning

Hazard statements

H351 Suspected of causing cancer

| Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Version: V2.0.0.1 Revision Date: -

Response

Respons	Not applicable

Storage

re locked up

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	Dizziness. Drowsiness. Headache. Nausea. Weakness. Unconsciousness. Death.
Ingestion	Abdominal pain. (Further see Inhalation).
Skin Contact	Dry skin. Redness. Burning sensation.
Eye	Redness. Pain. Severe deep burns.

Environmental hazards

Diagon refer	to 19th	abantar	of CDC
Please refer	to iztii	chablei	บ จบจ.

3 Composition/information on ingredients

| Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Dichloromethane	75-09-2	200-838-9	99.982
2-nitrophenol	88-75-5	201-857-5	0.0015
2-nitro-m-cresol	4920-77-8	225-546-9	0.0015
2-nitro-p-cresol	119-33-5	204-315-6	0.0015
6-nitro-m-cresol	700-38-9	211-843-0	0.0015
2,5-dinitrophenol	329-71-5	206-348-1	0.0015
3-nitrophenol	554-84-7	209-073-5	0.0015
2,4-dinitrophenol	51-28-5	200-087-7	0.0015

4-nitrophenol	100-02-7	202-811-7	0.0015
2,6-dinitrophenol	573-56-8	209-357-9	0.0015
4-nitro-m-cresol	2581-34-2	219-952-5	0.0015
2-methyl-4,6-dinitro-pheno	534-52-1	208-601-1	0.0015
4-nitro-2,6-xylenol	2423-71-4	219-353-9	0.0015

First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Ingestion	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Rest.
Inhalation	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

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 Use personal protective equipment, do not breathe gas/mist/vapour/spray.
- 2 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static

	discharges.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

| 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

- Cut off the source of the leak as much as possible.
 Keep leaks in a ventilated place.
 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by
 - bunding.
 - Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in
- container.

7 Handling and storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

- Keep containers tightly closed.
 Keep containers in a dry, cool and well-ventilated place.
 Keep away from heat/sparks/open flames/hot surfaces.
 Store away from incompatible materials and foodstuff containers.
- 8 Exposure controls/personal protection

| Control parameters

Occupational exposure limit values

Component	Country/Region	Country/Region Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Dichloromethane	Japan - JSOH(2024–202 5)	50	173	-	-
	Permissible exposure standards for workers in the workplace	50	174	75	217.5
	Australia	50	174	-	-
	Canada - Ontario	50	-	-	-
	European Union	100	353	200	706
	New Zealand	50	174	-	-

2,4-dinitrophenol	Latvia	-	0.5	-	-
	Romania	-	0.7	-	1
2-methyl-4,6-dinitro-phen ol	Permissible exposure standards for workers in the workplace	-	0.2	-	0.6
	Australia	-	0.2	-	-
	Canada - Ontario	-	0.2	-	-
	USA - ACGIH	-	0.2(inhalable fraction and vapor)	-	-
	USA - NIOSH	-	0.2	-	-
	USA - OSHA	-	0.2	-	-

| 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

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Appearance (physical state,	clear or clear yellow liquid
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	-97 (Dichloromethane)
Initial boiling point and boiling	40 (Dichloromethane)
range(°C)	
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive	Upper limit: 22 (Dichloromethane); Lower limit: 13 (Dichloromethane)
limits[%(v/v)]	
Vapor pressure	47.4kPa (20°C, Dichloromethane)

Vapor density(Air = 1)	2.9 (Dichloromethane)
Relative density(Water=1)	1.3 (20°C,Dichloromethane)
Solubility	20g/I (20°C,Dichloromethane)
n-octanol/water partition coefficient	1.25 (Dichloromethane)
Auto-ignition temperature(°C)	605 (Dichloromethane)
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	Reactions with metals form metal organic coumpounds. In contact with ammonia, strong inorganic alkalis, active metals, alkali carbonates, metal oxides or metal alkaoxides may result in an explosion.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Metal, oxidantss and alkali. Ammonia, strong inorganic alkalis, active metal, alkali metal carbonates, metal oxides, metal alkaoxides, and nitric acid.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

| Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Dichloromethane	1600mg/kg(Rat)	No information available	No information available
2-nitro-p-cresol	3360mg/kg(Rat)	No information available	No information available
4-nitrophenol	202mg/kg(Rat)	1024mg/kg(Rat)	No information available
2,4-dinitrophenol	30mg/kg(Rat)	No information available	No information available
4-nitro-m-cresol	1200mg/kg(Rat)	No information available	No information available
2-methyl-4,6-dinitro-phen ol	25mg/kg(Rat)	1000mg/kg(Rabbit)	No information available
3-nitrophenol	328mg/kg(Rat)	No information available	No information available
2-nitrophenol	334mg/kg(Rat)	> 7940mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List		
	the IARC Monographs	by NTP			
Dichloromethane	Category 2A	Category R	Listed		
2-nitrophenol	Not Listed	Not Listed	Not Listed		
2-nitro-m-cresol	Not Listed	Not Listed	Not Listed		
2-nitro-p-cresol	Not Listed	Not Listed	Not Listed		

6-nitro-m-cresol	Not Listed	Not Listed	Not Listed
2,5-dinitrophenol	Not Listed	Not Listed	Not Listed
3-nitrophenol	Not Listed	Not Listed	Not Listed
2,4-dinitrophenol	Not Listed	Not Listed	Not Listed
4-nitrophenol	Not Listed	Not Listed	Not Listed
2,6-dinitrophenol	Not Listed	Not Listed	Not Listed
4-nitro-m-cresol	Not Listed	Not Listed	Not Listed
2-methyl-4,6-dinitro-phen ol	Not Listed	Not Listed	Not Listed
4-nitro-2,6-xylenol	Not Listed	Not Listed	Not Listed

Others

	12 Mix of nitrophenol in dichloromethane							
Skin corrosion/irritation	Based on available data, the classification criteria are not met							
Serious eye damage/irritation	Based on available data, the classification criteria are not met							
Skin sensitization	Based on available data, the classification criteria are not met							
Respiratory sensitization	Based on available data, the classification criteria are not met							
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	Based on available data, the classification criteria are not met							

12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants
Dichloromethane	LC ₅₀ :193mg/L (96h)(Fish)	EC ₅₀ : 1470mg/L	No information available
		(48h)(Crustaceans)	
2-nitro-p-cresol	No information available	No information available	ErC ₅₀ : 12mg/L
			(96h)(Algae)
4-nitrophenol	LC ₅₀ : 28mg/L (96h)(Fish)	EC ₅₀ : 8.04mg/L	ErC ₅₀ : 4.89mg/L
		(48h)(Crustaceans)	(96h)(Algae)
2,6-dinitrophenol	LC ₅₀ : 39.7mg/L	No information available	No information available
	(96h)(Fish)		
2,4-dinitrophenol	LC ₅₀ : 0.39mg/L	EC ₅₀ : 4.39mg/L	ErC ₅₀ : 10mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(96h)(Algae)
2-methyl-4,6-dinitro-phen	LC ₅₀ : 1.1mg/L (96h)(Fish)	EC ₅₀ : 1.7mg/L	ErC ₅₀ : 5.6mg/L
ol		(48h)(Crustaceans)	(72h)(Algae)
2-nitrophenol	LC ₅₀ : 64mg/L (96h)(Fish)	EC ₅₀ : 28mg/L	ErC ₅₀ : 6.0mg/L
		(48h)(Crustaceans)	(72h)(Algae)
2,5-dinitrophenol	LC ₅₀ : 3.36mg/L	No information available	No information available
	(96h)(Fish)		

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic				
			plants				
2-methyl-4,6-dinitro-phen	No information available	No information available	NOEC: 0.31mg/L(Algae)				
ol							
2-nitrophenol	No information available	No information available	NOEC: 0.92mg/L(Algae)				

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)					
2-nitrophenol	Low(Half-life = 28 days)	Low(Half-life = 2.96 days)					
2-nitro-m-cresol	High	High					
2-nitro-p-cresol	Low(Half-life = 49 days)	Low(Half-life = 0.67 days)					
2,5-dinitrophenol	High	High					
3-nitrophenol	High	High					
4-nitrophenol	Low(Half-life = 9.79 days)	Low(Half-life = 6.04 days)					
2,6-dinitrophenol	High	High					
4-nitro-m-cresol	Low(Half-life = 49 days)	Low(Half-life = 0.67 days)					

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
2-nitrophenol	Low	BCF=76
2-nitro-m-cresol	Low	Log Kow=2.29
2-nitro-p-cresol	Low	BCF=13
2,5-dinitrophenol	Low	Log Kow=1.75
3-nitrophenol	Low	Log Kow=2
4-nitrophenol	Low	BCF=280
2,6-dinitrophenol	Low	Log Kow=1.37
4-nitro-m-cresol	Low	BCF=31

| Mobility in soil

Component	log Koc	Remark
Dichloromethane	1.67	20 ℃
2-nitrophenol	2.499	
2-nitro-m-cresol	2.717	
2-nitro-p-cresol	2.708	
2,5-dinitrophenol	2.561	
3-nitrophenol	2.490	
2,4-dinitrophenol	1.22	20 ℃
4-nitrophenol	2.490	
2,6-dinitrophenol	2.570	

4-nitro-m-cresol	2.708	

13 Disposal considerations

Disposal considerations

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

14 Transport information

Label and Mark

Transporting Label Not applicable

| IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

IATA-DGR

IATA-DGR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to IMO instruments

◆ 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		J	K	L	М
Dichloromethane	V	√	√	√	√	√	√						
2-nitrophenol	√	√	√	√	√	√	V	√	√	×	√	√	√
2-nitro-m-cresol	√	V	×	×	×	×	×	×	√	×	×	√	√

2-nitro-p-cresol	√	√	√	×	\ \	×	\ \	\ \	√	×	\ \	√	\ \
6-nitro-m-cresol	×	√	×	×	×	×	×	√	√	×	×	√	1
2,5-dinitrophenol	1	1	×	×	√	×	×	×	×	×	1	1	1
3-nitrophenol	√	√	√	√	√	√	×	√	√	×	√	√	√
2,4-dinitrophenol	√	√	√	√	√	√	√	√	√	×	√	√	√
4-nitrophenol	√	1											
2,6-dinitrophenol	√	√	×	×	√	×	×	×	×	×	√	×	1
4-nitro-m-cresol	√	√	√	×	√	√	√	√	√	×	×	√	1
2-methyl-4,6-dinitro-phen	√	√	√	√	√	√	√	×	√	×	√	√	√
4-nitro-2,6-xylenol	×	√	×	×	√	√	×	×	×	×	×	√	1

- [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		
Dichloromethane	×	×	×		
2-nitrophenol	×	×	×		
2-nitro-m-cresol	×	×	×		
2-nitro-p-cresol	×	×	×		
6-nitro-m-cresol	×	×	×		
2,5-dinitrophenol	×	×	×		
3-nitrophenol	×	×	×		
2,4-dinitrophenol	×	×	×		
4-nitrophenol	×	×	×		
2,6-dinitrophenol	×	×	×		
4-nitro-m-cresol	×	×	×		
2-methyl-4,6-dinitro-phen ol	×	×	V		
4-nitro-2,6-xylenol	×	×	×		

- [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	A	В	С	D	E	F	G	Н
Dichloromethane	V	×	√	√	√	√	√	√
2-nitrophenol	×	×	√	√	√	√	√	×
2-nitro-m-cresol	×	×	×	×	×	×	×	×
2-nitro-p-cresol	×	×	×	×	×	×	×	×
6-nitro-m-cresol	×	×	×	×	×	×	×	×
2,5-dinitrophenol	×	×	√	√	√	√	√	×
3-nitrophenol	×	×	√	√	√	√	√	×
2,4-dinitrophenol	√	×	√	√	√	√	√	×
4-nitrophenol	√	×	√	√	√	√	√	×
2,6-dinitrophenol	×	×	√	√	√	√	√	×
4-nitro-m-cresol	×	×	×	×	×	×	×	×
2-methyl-4,6-dinitro-phe nol	V	V	V	√	√	√	√	×
4-nitro-2,6-xylenol	×	×	×	×	×	×	×	×

- [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	2025/10/12
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] 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

N The United Nations

Version: V2.0.0.1 Revision Date: -

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