

Safety Data Sheet

6 Mix aniline in dichloromethane:ethanol

Version : V2.0.0.1

Report No. : BWQ8542-2016-MSDS-EP

Creation Date : 2026/01/10

Revision Date : -



*Prepared in accordance with EU REACH Regulation (REACH 1907/2006 with amendment 2020/878)

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

1.1 Product identifier

Product Name	6 Mix aniline in dichloromethane:ethanol
Cat No.	BWQ8542-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available

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

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

1.3 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

1.4 Emergency telephone number

Emergency telephone number	010-58103678
Opening hours	24h

2 Hazards identification

2.1 CLP classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707

Carcinogenicity	Category 2
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2.2 Label elements

Hazard pictograms	
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Signal word	Warning
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Hazard statements

H351	Suspected of causing cancer
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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.

◆ Response

P308+P313	IF exposed or concerned: Get medical advice/attention.
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◆ Storage

P405	Store locked up.
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◆ Disposal

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

◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Dichloromethane	Not PBT/vPvB
Ethanol	Not PBT/vPvB
Aniline	Not PBT/vPvB
N,N-dimethylaniline	Not PBT/vPvB
2,5-xylidine	Insufficient information, temporarily unable to evaluate
2-nitroaniline	Not PBT/vPvB
3-nitroaniline	Insufficient information, temporarily unable to evaluate
4-nitroaniline	PBT/vPvB

◆ Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]
Dichloromethane	Insufficient information, temporarily unable to evaluate
Ethanol	Insufficient information, temporarily unable to evaluate
Aniline	Insufficient information, temporarily unable to evaluate
N,N-dimethylaniline	Insufficient information, temporarily unable to evaluate
2,5-xylidine	Insufficient information, temporarily unable to evaluate
2-nitroaniline	Insufficient information, temporarily unable to evaluate
3-nitroaniline	Insufficient information, temporarily unable to evaluate
4-nitroaniline	Insufficient information, temporarily unable to evaluate

◆ Other

Not applicable.

3 Composition/information on ingredients**3.1 Substance**

Not applicable

3.2 Mixture

Component	Weight % content(or range)	Classification according to Regulation (EC) No. 1272/2008 with amendment 2023/707 [CLP]	Specific Conc. Limits, M-factors
Dichloromethane CAS : 75-09-2 EC : 200-838-9 Index No. : 602-004-00-3	96.521	Carcinogenicity, Category 2, H351	-
Ethanol CAS : 64-17-5 EC : 200-578-6 Index No. : 603-002-00-5	3.017	Flammable liquids, Category 2, H225	-
Aniline CAS : 62-53-3 EC : 200-539-3 Index No. : 612-008-00-7	0.077	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Sensitization - skin, Category 1, H317; Serious eye damage/irritation, Category 1, H318; Acute Toxicity - Inhalation, Category 3, H331; Germ cell mutagenicity, Category 2, H341; Carcinogenicity, Category 2, H351; Specific target organ toxicity - repeated exposure, Category 1, H372; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400	H372:C ≥ 1% H373:0.2% ≤ C < 1%
N,N-dimethylaniline CAS : 121-69-7 EC : 204-493-5 Index No. : 612-016-00-0	0.077	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Acute Toxicity - Inhalation, Category 3, H331; Carcinogenicity, Category 2, H351; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 2, H411	-
2,5-xylydine CAS : 95-78-3 EC : 202-451-0 Index No. : -	0.077	Acute Toxicity - Oral, Category 4, H302; Specific target organ toxicity - repeated exposure, Category 2, H373; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 3, H412	-
2-nitroaniline CAS : 88-74-4 EC : 201-855-4 Index No. : 612-012-00-9	0.077	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Acute Toxicity - Inhalation, Category 3, H331; Specific target organ toxicity - repeated exposure, Category 2, H373; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 3, H412	-
3-nitroaniline CAS : 99-09-2 EC : 202-729-1 Index No. : 612-012-00-9	0.077	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Acute Toxicity - Inhalation, Category 3, H331; Specific target organ toxicity - repeated exposure, Category 2, H373; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 3, H412	-

4-nitroaniline CAS : 100-01-6 EC : 202-810-1 Index No. : 612-012-00-9	0.077	Acute Toxicity - Oral, Category 3, H301; Acute Toxicity - Dermal, Category 3, H311; Acute Toxicity - Inhalation, Category 3, H331; Specific target organ toxicity - repeated exposure, Category 2, H373; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 3, H412	-
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4 First-aid measures

4.1 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.

4.2 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.
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4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ or water spray; Large fire: dry chemical, CO ₂ , alcohol-resistant foam or water spray; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	No information available.

5.2 Specific hazards arising from the substance or mixture

1	May emit poisonous fumes on fire.
2	Development of hazardous combustion gases or vapor possible in the event of fire.
3	May expansion or decompose explosively when heated or involved in fire.

5.3 Advice for firefighters

1	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

6.1 Personal precautions, protective equipment and emergency procedures

1	Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
2	Do not touch or walk through spilled material.
3	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
4	Use personal protective equipment, do not breathe gas/mist/vapour/spray.
5	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
6	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

1	Do not touch or cross spills.
2	Cover with anti-solvent foam to reduce evaporation.
3	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-virus suits.
4	Spray water disperses the vapor and dilutes the liquid spill.
5	Do not touch broken containers and spills before putting on appropriate protective clothing.
6	Cut off the source of the leak as much as possible.
7	Keep leaks in a ventilated place.
8	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
9	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
10	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

6.4 Reference to other sections

1	Personal Protective Equipment advice is contained in Section 8 of the SDS.
2	Disposal considerations advice is contained in Section 13 of the SDS.

7 Handling and storage

7.1 Precautions for safe handling

◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

◆ Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.
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◆ Measures to prevent aerosol and dust generation

1	Not applicable.
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◆ Advice on general occupational hygiene

1	Wash hands and face after using the substances.
2	Replace the contaminated clothing immediately.

7.2 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.

7.3 Specific end use(s)

1	In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.
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8 Exposure controls/personal protection

8.1 Control parameters

◆ Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Dichloromethane	Japan - JSOH(2024–2025)	50	173	-	-
	Permissible exposure standards for workers in the workplace	50	174	75	217.5
	European Union	100	353	200	706
	France	50	178	100	356
	Germany (AGS)	50	180	100	360
	Germany (DFG)	50	180	100	360
Ethanol	Permissible exposure standards for workers in the workplace	1000	1880	1000	1880
	France	1000	1900	5000	9500
	Germany (AGS)	200	380	800	1520
	Germany (DFG)	200	380	800	1520
	United Kingdom	1000	1920	-	-
	Austria	1000	1900	2000	3800
Aniline	Japan - JSOH(2024–2025)	1	3.8	-	-
	Permissible exposure standards for workers in the workplace	2	7.6	4	15.2
	European Union	2	7.74	5	19.35
	France	2	7.74	5	19.35
	Germany (AGS)	2	7.7	4	15.4

	Germany (DFG)	2	7.7	4	15.4
N,N-dimethylaniline	Japan - JSOH(2024–2025)	5	25	-	-
	Permissible exposure standards for workers in the workplace	5	25	10	37.5
	France	5	25	-	-
	Germany (AGS)	5	25	10	50
	Germany (DFG)	5	25	10	50
	United Kingdom	5	25	10	50
	2,5-xylidine	Denmark	0.5	2.5	1
Finland		5	25	10	50
Ireland		0.5	2.5	-	-
Norway		1	5	-	-
Switzerland		2	10	-	-
Singapore		0.5	2.5	-	-
2-nitroaniline	Finland	1	5.7	3	17
	Latvia	-	0.5	-	-
	Poland	-	3	-	10
3-nitroaniline	Finland	1	5.7	3	17
	Latvia	-	0.1	-	-
	Poland	-	3	-	10
4-nitroaniline	Japan - JSOH(2024–2025)	-	3	-	-
	Permissible exposure standards for workers in the workplace	-	3	-	6
	France	-	3	-	-
	Austria	1	6	-	-
	Belgium	-	3	-	-
	Denmark	0.5	3	1	6

◆ Biological limit values

Component	Standard	Biological monitoring index	Biological limits value	Sampling time	Remark
Dichloromethane	SCOEL(EU)	COHb/blood	0.04	Not strictly regulated	
		methylene chloride/urine	0.3mg/L	Not strictly regulated	
		methylene chloride/blood	1.0mg/L	Not strictly regulated	

		Dichloromethane(Urine)	0.3mg/L	End of shift	
Aniline	SCOEL(EU)	p-aminophenol/urine	30 mg/L	0-2 h after exposure/shift	
		Aniline, with hydrolysis(Urine)	0.5mg/L	End of shift	
4-nitroaniline	USA -ACGIH	Methemoglobin(Hemoglobin in blood)	5%	During or end of shift	

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 and GBZ/T 160 series standard Determination of toxic substances in workplace air.

◆ Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Dichloromethane	Inhalation	No data available	No data available	No data available	176 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Ethanol	Inhalation	No data available	No data available	No data available	380 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Aniline	Inhalation	No data available	No data available	No data available	7.7 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
N,N-dimethylaniline	Inhalation	No data available	No data available	No data available	1.104 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2,5-xylidine	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2-nitroaniline	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
3-nitroaniline	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
4-nitroaniline	Inhalation	No data available	No data available	No data available	0.201 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

◆ Predicted No Effect Concentration (PNEC)

Component	A	B	C	D	E	F	G	H
Dichloromethane	130 - 310 µg/L	31 - 130 µg/L	26 mg/L	163 - 2570 µg/kg sediment dw	163 - 260 µg/kg sediment dw	No hazard identified	173 - 330 µg/kg soil dw	No potential for bioaccumulation
Ethanol	960 µg/L	790 µg/L	580 mg/L	3.6 mg/kg sediment dw	2.9 mg/kg sediment dw	No hazard identified	630 µg/kg soil dw	380 - 720 mg/kg food
Aniline	1.2 µg/L	120 ng/L	2 mg/L	153 µg/kg sediment dw	15.3 µg/kg sediment dw	No hazard identified	33 µg/kg soil dw	2.3 g/kg food
N,N-dimethylaniline	23 - 44 µg/L	2.3 - 4.4 µg/L	5.948 mg/L	4.942 - 10.957 mg/kg sediment dw	4.942 - 10.957 mg/kg sediment dw	No hazard identified	1.906 - 4.366 mg/kg soil dw	No potential for bioaccumulation
4-nitroaniline	24 µg/L	2.4 µg/L	1 mg/L	64.247 mg/kg sediment dw	64.247 mg/kg sediment dw	No data available	25.961 mg/kg soil dw	No potential for bioaccumulation

Note 1:

A: Freshwater; B: Seawater; C: Sewage treatment plant; D: Sediment (freshwater); E: Sediment (seawater); F: Air; G: Soil; H: Secondary poisoning(Hazard for Predators).

Note 2:

The PNEC values of the remaining components not shown in the product are not available yet.

8.2 Exposure controls

8.2.1 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.

8.2.2 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.

8.2.3 Environmental exposure controls

Environmental exposure controls	No information available
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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Clear, colorless liquid
Colour	Clear, colorless liquid
Odor	No information available
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	-97 (Dichloromethane)
Initial boiling point and boiling range(°C)	40 (Dichloromethane)
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit : 22 (Dichloromethane) ; Lower limit : 13 (Dichloromethane)
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/l (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
Explosive properties	No information available
Oxidizing properties	No information available
Particle characteristics	Not applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Information with regard to physical hazard classes	No information available
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9.2.2 Other safety characteristics

Other safety characteristics	No information available
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10 Stability and reactivity

Stability and reactivity

10.1 Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
10.2 Chemical stability	Stable under proper operation and storage conditions.
10.3 Possibility of hazardous reactions	Reactions with metals form metal organic compounds. In contact with oxidants causes severe reactions, and may cause a fire or explosion. In contact with oxidants, anhydrides, metals, metal oxides / KMnO4 metal salts, nitro-compounds may cause a fire or explosion.
10.4 Conditions to avoid	Incompatible materials, heat, flame and spark.
10.5 Incompatible materials	Metal, oxidantss and alkali. Oxidants, alkali metals, alkaline earth metals and aluminum. Oxidants, halogen, anhydrides, acids, metals, metal oxides, potassium

	permanganate, nitro-compounds and metal salts.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 with amendment 2023/707

6 Mix aniline in dichloromethane:ethanol	
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-single exposure	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

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
N,N-dimethylaniline	951mg/kg(Rat)	1690mg/kg(Rabbit)	No information available
4-nitroaniline	750mg/kg(Rat)	No information available	No information available
2,5-xylydine	1297mg/kg(Rat)	No information available	No information available
Aniline	250mg/kg(Rat)	837mg/kg(Rabbit)	No information available
3-nitroaniline	535mg/kg(Rat)	No information available	No information available
Dichloromethane	1600mg/kg(Rat)	No information available	No information available
Ethanol	7060mg/kg(Rat)	No information available	39mg/L(Mouse)
2-nitroaniline	1600mg/kg(Rat)	No information available	> 2.529mg/L(Rat)

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Dichloromethane	Category 2A	Category R
Ethanol	Category 1(Remark 1)	Not Listed
Aniline	Category 2A(Remark 2)	Not Listed
N,N-dimethylaniline	Category 3	Not Listed
2,5-xylydine	Category 3	Not Listed
2-nitroaniline	Not Listed	Not Listed
3-nitroaniline	Not Listed	Not Listed
4-nitroaniline	Not Listed	Not Listed

Remark 1: for alcoholic beverages only; Remark 2: see also Aniline hydrochloride

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
Dichloromethane	No information available
Ethanol	No information available
Aniline	No information available
N,N-dimethylaniline	No information available
2,5-xylidine	No information available
2-nitroaniline	No information available
3-nitroaniline	No information available
4-nitroaniline	No information available

11.2.2 Other Information

Other Information	See Section 11.1

12 Ecological information

12.1 Toxicity

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
N,N-dimethylaniline	LC ₅₀ : 53.7mg/L (96h)(Fish)	EC ₅₀ : 8mg/L (48h)(Crustaceans)	No information available
4-nitroaniline	LC ₅₀ : 85mg/L (96h)(Fish)	EC ₅₀ : 22mg/L (48h)(Crustaceans)	ErC ₅₀ : 43mg/L (72h)(Algae)
2,5-xylidine	LC ₅₀ : > 110mg/L (96h)(Fish)	EC ₅₀ : 18mg/L (48h)(Crustaceans)	ErC ₅₀ : 30mg/L (72h)(Algae)
Aniline	LC ₅₀ : 27mg/L (96h)(Fish)	EC ₅₀ : 0.32mg/L (48h)(Crustaceans)	ErC ₅₀ : 20mg/L (96h)(Algae)
3-nitroaniline	LC ₅₀ : 90mg/L (96h)(Fish)	EC ₅₀ : 9.1mg/L (48h)(Crustaceans)	ErC ₅₀ : 43mg/L (72h)(Algae)
Dichloromethane	LC ₅₀ : 193mg/L (96h)(Fish)	EC ₅₀ : 1470mg/L (48h)(Crustaceans)	No information available
Ethanol	LC ₅₀ : 11200mg/L (96h)(Fish)	EC ₅₀ : 9950mg/L (48h)(Crustaceans)	No information available
2-nitroaniline	LC ₅₀ : 42mg/L (96h)(Fish)	EC ₅₀ : 10mg/L (48h)(Crustaceans)	ErC ₅₀ : 44mg/L (72h)(Algae)

Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
4-nitroaniline	No information available	No information available	NOEC : 0.94mg/L(Algae)
2,5-xylidine	No information available	NOEC : 0.096mg/L(Crustaceans)	NOEC : 2.0mg/L(Algae)
Aniline	NOEC : 1.9mg/L(Fish)	NOEC : 0.0063mg/L(Crustaceans)	NOEC : 3.7mg/L(Algae)

3-nitroaniline	No information available	NOEC : 0.12mg/L(Crustaceans)	NOEC : 6.3mg/L(Algae)
2-nitroaniline	No information available	No information available	NOEC : 1mg/L(Algae)

12.2 Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Ethanol	Low(Half-life = 2.17 days)	Low(Half-life = 5.08 days)
2,5-xylydine	High	High
2-nitroaniline	High	High
3-nitroaniline	High	High
4-nitroaniline	High	High

12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Ethanol	Low	Log Kow=-0.31
2,5-xylydine	Low	BCF=3.8
2-nitroaniline	Low	BCF=10
3-nitroaniline	Low	BCF=3
4-nitroaniline	Low	BCF=10

12.4 Mobility in soil

Component	log Koc	Remark
Dichloromethane	1.67	20 °C
Ethanol	0	
N,N-dimethylaniline	1.80	20 °C
2,5-xylydine	2.38	
2-nitroaniline	1.722	
3-nitroaniline	1.713	
4-nitroaniline	1.94	20 °C

12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Dichloromethane	Not PBT/vPvB
Ethanol	Not PBT/vPvB
Aniline	Not PBT/vPvB
N,N-dimethylaniline	Not PBT/vPvB
2,5-xylydine	Insufficient information, temporarily unable to evaluate
2-nitroaniline	Not PBT/vPvB
3-nitroaniline	Insufficient information, temporarily unable to evaluate

4-nitroaniline	PBT/vPvB
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12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
Dichloromethane	No information available
Ethanol	No information available
Aniline	No information available
N,N-dimethylaniline	No information available
2,5-xylidine	No information available
2-nitroaniline	No information available
3-nitroaniline	No information available
4-nitroaniline	No information available

12.7 Other adverse effects

No information available

13 Disposal considerations

13.1 Waste treatment methods

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	
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IMDG-CODE

14.1 UN number	1593
14.2 UN proper shipping name	DICHLOROMETHANE
14.3 Transport hazard class	6.1
14.4 Packing group	III
14.5 Environmental hazards (Yes or no)	No

IATA-DGR

14.1 UN number	1593
14.2 UN proper shipping name	DICHLOROMEETHANE
14.3 Transport hazard class	6.1
14.4 Packing group	III

14.5 Environmental hazards (Yes or no)	No
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UN-ADR

14.1 UN number	1593
14.2 UN proper shipping name	DICHLOROMETHANE
14.3 Transport hazard class	6.1
14.4 Packing group	III
14.5 Environmental hazards (Yes or no)	No

Special precautions for user

	Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. 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.
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Maritime transport in bulk according to IMO instruments

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

	Not Available
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- ◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

	Not Available
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- ◆ Transport in bulk in accordance with the IGC Code

	Not Available
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15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Dichloromethane	√	√	√	√	√	√	√	√	√	√	√	√	√
Ethanol	√	√	√	√	√	√	√	√	√	√	√	√	√
Aniline	√	√	√	√	√	√	√	√	√	√	√	√	√
N,N-dimethylaniline	√	√	√	√	√	√	√	√	√	√	√	√	√
2,5-xylidine	√	√	√	×	√	√	×	√	√	×	√	√	√
2-nitroaniline	√	√	√	√	√	√	√	√	√	×	√	√	√
3-nitroaniline	√	√	√	√	√	√	√	√	√	×	√	√	√
4-nitroaniline	√	√	√	√	√	√	√	√	√	√	√	√	√

- [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)
 [I] 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	A	B	C
Dichloromethane	x	x	x
Ethanol	x	x	x
Aniline	x	x	x
N,N-dimethylaniline	x	x	x
2,5-xylidine	x	x	x
2-nitroaniline	x	x	x
3-nitroaniline	x	x	x
4-nitroaniline	x	x	x

- [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

European chemical inventory

Component	A	B	C	D	E	F	G	H	I
Dichloromethane	x	x	√	√	√	√	√	x	x
Ethanol	x	x	x	√	√	x	x	x	x
Aniline	x	x	x	√	√	x	x	x	x
N,N-dimethylaniline	x	x	x	√	√	x	x	x	x
2,5-xylidine	x	x	x	√	√	x	x	x	x
2-nitroaniline	x	x	x	√	√	x	x	x	x
3-nitroaniline	x	x	x	√	√	x	x	x	x
4-nitroaniline	x	x	x	√	√	x	x	x	x

- [A] Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
 [B] Substances requiring authorisation under EU REACH regulation
 [C] Substances restricted under EU REACH
 [D] Pre-registered substances under EU REACH
 [E] Registered substances under EU REACH
 [F] Substance Evaluation – CoRAP under EU REACH
 [G] List of priority substances under EU water policy (Directive 2455/2001/EC)
 [H] Substances subject to POPs Regulation
 [I] Substances proposed as POPs

Note:

- “√” Indicates that the substance included in the regulations.
 “x” No data or not included in the regulations.

German water hazard class(WGK)

Component	WGK	Remark
Dichloromethane	WGK 2	
Ethanol	WGK 1	The assessment refers to pure ethanol. Denatured alcohol must be classified in accordance with Annex 1 No. 5 of the AwSV.
Aniline	WGK 3	
N,N-dimethylaniline	WGK 3	
2,5-xylidine	WGK 3	
2-nitroaniline	WGK 3	
3-nitroaniline	WGK 3	
4-nitroaniline	WGK 3	

【WGK 1】	slightly hazardous to water
【WGK 2】	obviously hazardous to water
【WGK 3】	highly hazardous to water
【nwg】	non-hazardous to water
【awg】	hazardous to water in general

German technical instructions on air quality control(TA LUFT)

Component	TA LUFT	Remark
Dichloromethane	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	
Ethanol	Chapter 5.2.5 Organic Substances. The following values, specified as overall carbon, are in all not allowed to be exceeded in exhaust gas: Mass flow: 0,50 kg/hr or Mass conc.: 50 mg/m ³ At old units with an annual mass flow till 1,5 Mg/a, specified as total carbon, the emissions in exhaust gas are not allowed to exceed 1,5 kg/h.	
Aniline	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	
N,N-dimethylaniline	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	
2,5-xylidine	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	
2-nitroaniline	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	

3-nitroaniline	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	
4-nitroaniline	Chapter 5.2.5 Organic Substances, class I. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,10 kg/hr or Mass conc.: 20 mg/m ³	

German technical rules for hazardous substances (TRGS)

Component	TRGS	Remark
Dichloromethane	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510	
Ethanol	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
Aniline	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
N,N-dimethylaniline	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
2,5-xylidine	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
2-nitroaniline	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
3-nitroaniline	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	
4-nitroaniline	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	

15.2 Chemical safety assessment

	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
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16 Other information

Information on revision

Creation Date	2026/01/10
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] 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
P _{ow}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation. 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.