

Safety Data Sheet according to Regulation (EC) No. 453/2010 Date of issue: 08/04/2014 Revision date: 13/04/2015

Version: 1.1

	e substance/mixture and of the company/undertaking
1.1. Product identifier Product form	· Mixturo
Product form Product name	: Mixture : 8270 Benzidines Standard
	: AL0-101243
Product code Product group	: ALO-101243 : Trade product
• •	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	, Laboratory Llas
Main use category Industrial/Professional use spec	: Laboratory Use : Industrial
	For professional use only
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the s	afety data sheet
Phenova	
6390 Joyce Dr. Suite 100	
80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269	
info@phenova.com - www.phenova.com	
1.4. Emergency telephone number	
Emergency number	: ChemTel Assistance (US/Canada) 1-800-255-3924
0	ChemTel Assistance (International) +1 813-248-0585
SECTION 2: Hazards identificat	ion
2.1. Classification of the substanc	
Classification according to Regulation	(EC) NO. 12/2/2008 [CLP]
Carc. 1A H350	
Aquatic Chronic 3 H412	
Aqualle Chronic 5 Th412	
Classification according to Directive 67	/548/EEC [DSD] or 1999/45/EC [DPD]
Carc.Cat.1; R45	
R52/53	
Full text of R-phrases: see section 16	
Adverse physicochemical, human healt	h and environmental effects
Adverse physicochemical, human healt No additional information available	h and environmental effects
Adverse physicochemical, human healt No additional information available 2.2. Label elements	
Adverse physicochemical, human healt No additional information available 2.2. Label elements Labeling according to Regulation (EC)	
Adverse physicochemical, human healt No additional information available 2.2. Label elements	
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Adverse physicochemical, human healt No additional information available 2.2. Label elements Labeling according to Regulation (EC)	
Adverse physicochemical, human healt No additional information available 2.2. Label elements Labeling according to Regulation (EC) Hazard pictograms (CLP)	No. 1272/2008 [CLP] :
Adverse physicochemical, human healt No additional information available 2.2. Label elements Labeling according to Regulation (EC) I Hazard pictograms (CLP) Signal word (CLP)	No. 1272/2008 [CLP] : GH508
Adverse physicochemical, human healt No additional information available 2.2. Label elements Labeling according to Regulation (EC) in Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients	No. 1272/2008 [CLP] : GHS08 : Danger : benzidine, 3,3'-dichlorobenzidine, 3,3'-Dimethylbenzidine, Methylene Chloride : H350 - May cause cancer
Adverse physicochemical, human healt No additional information available 2.2. Label elements Labeling according to Regulation (EC) I Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients Hazard statements (CLP)	No. 1272/2008 [CLP] : GHS08 : Danger : benzidine, 3,3'-dichlorobenzidine, 3,3'-Dimethylbenzidine, Methylene Chloride : H350 - May cause cancer H412 - Harmful to aquatic life with long lasting effects
Adverse physicochemical, human healt No additional information available 2.2. Label elements Labeling according to Regulation (EC) I Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients Hazard statements (CLP)	<ul> <li>No. 1272/2008 [CLP]</li> <li> GHS08 </li> <li> Danger benzidine, 3,3'-dichlorobenzidine, 3,3'-Dimethylbenzidine, Methylene Chloride </li> <li> H350 - May cause cancer H412 - Harmful to aquatic life with long lasting effects P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment</li></ul>
Adverse physicochemical, human healt No additional information available 2.2. Label elements Labeling according to Regulation (EC)	<ul> <li>No. 1272/2008 [CLP]</li> <li>: i i i i i i i i i i i i i i i i i i</li></ul>
Adverse physicochemical, human healt No additional information available 2.2. Label elements Labeling according to Regulation (EC) in Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients Hazard statements (CLP)	<ul> <li>No. 1272/2008 [CLP]</li> <li> GHS08 </li> <li> Danger benzidine, 3,3'-dichlorobenzidine, 3,3'-Dimethylbenzidine, Methylene Chloride </li> <li> H350 - May cause cancer H412 - Harmful to aquatic life with long lasting effects P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment</li></ul>

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### EUH phrases

No labeling applicable

: EUH208 - Contains 3,3'-dichlorobenzidine(91-94-1). May produce an allergic reaction

## 2.3. Other hazards

### No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

## 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene Chloride (Component)	(CAS No) 75-09-2 (EC no) 200-838-9 (EC index no) 602-004-00-3	99.4	Carc. 2, H351
benzidine (Component)	(CAS No) 92-87-5 (EC no) 202-199-1 (EC index no) 612-042-00-2	0.2	Acute Tox. 4 (Oral), H302 Carc. 1A, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3'-dichlorobenzidine (Component)	(CAS No) 91-94-1 (EC no) 202-109-0 (EC index no) 612-068-00-4	0.2	Acute Tox. 4 (Dermal), H312 Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3'-Dimethylbenzidine (Component)	(CAS No) 119-93-7 (EC no) 204-358-0 (EC index no) 612-041-00-7	0.2	Acute Tox. 4 (Oral), H302 Carc. 1B, H350 Aquatic Chronic 2, H411
Name	Product identifier	Specific of	concentration limits
benzidine (Component)	(CAS No) 92-87-5 (EC no) 202-199-1 (EC index no) 612-042-00-2	(C >= 0.01)	) Carc. 1A, H350

# **SECTION 4: First aid measures**

4.1. Description of first aid measure	es
First-aid measures general	<ul> <li>Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.</li> </ul>
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	<ul> <li>Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause cancer by inhalation.
4.3. Indication of any immediate me	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measur	es
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	ne substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	<ul> <li>Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.</li> </ul>
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release r	measures
	ve equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.

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6.1.2. For emergency respo	nders
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precau	itions
Prevent entry to sewers and publ	ic waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material	for containment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collec spillage. Store away from other materials.
6.4. Reference to other se	ctions
See Heading 8. Exposure control	s and personal protection.
SECTION 7: Handling an	d storage
7.1. Precautions for safe I	andling
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	<ul> <li>Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.</li> </ul>	
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
7.3. Specific end use(s)		

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- No additional information available
- 8.2. Exposure controls Appropriate engineering controls

Personal protective equipment

: Either local exhaust or general room ventilation is usually required.

:	Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety
	glasses.



Hand	protection
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Hand protection	<ul> <li>Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.</li> </ul>
Eye protection	: Chemical goggles or safety glasses. Safety glasses.
Skin and body protection	: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
Respiratory protection	: Wear appropriate mask.

: Do not eat, drink or smoke during use.

# Other information

<b>SECTION 9: Physical and chemic</b>	chemical properties		
9.1. Information on basic physical a	9.1. Information on basic physical and chemical properties		
Physical state	: Liquid		
Color	: Colorless.		
Odor	: characteristic.		
pH	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		

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Flammability (solid, gas)	: Non flammable
Relative density	: No data available
Solubility	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Not established.	
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperature	es.
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition products	
fume. Carbon monoxide. Carbon dioxide.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
•	
benzidine (92-87-5)	
LD50 oral rat	309 mg/kg (Rat; Literature study)
ATE CLP (oral)	309.000 mg/kg body weight
3,3'-dichlorobenzidine (91-94-1)	7070 mg//g (Dot)
LD50 oral rat ATE CLP (oral)	7070 mg/kg (Rat) 7070.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
3,3'-Dimethylbenzidine (119-93-7)	
LD50 oral rat	404 mg/kg (Rat)
ATE CLP (oral)	404.000 mg/kg body weight
Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
Skin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: May cause cancer.
	May cause cancer
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met

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ccording to Regulation (EC) No. 453/2010	
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
<b>SECTION 12: Ecological information</b>	n
12.1. Toxicity	
Ecology - water	: Harmful to aquatic life with long lasting effects.
benzidine (92-87-5)	
LC50 fish 1	4.35 mg/l (96 h; Salmo sp.)
EC50 Daphnia 1	0.6 mg/l (48 h; Daphnia magna; Chronic)
LC50 fish 2	7.4 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	0.32 mg/l (Daphnia magna)
Threshold limit algae 1	20 mg/l (Microcystis aeruginosa)
3,3'-dichlorobenzidine (91-94-1)	
LC50 fish 1	1.8 mg/l (48 h; Oryzias latipes)
EC50 other aquatic organisms 1	4.3 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
LC50 fish 2	0.5 mg/l (96 h; Lepomis macrochirus)
Threshold limit algae 1	0.32 mg/l (72 h; Scenedesmus subspicatus)
3,3'-Dimethylbenzidine (119-93-7)	
LC50 fish 1	56 mg/l (48 h; Oryzias latipes)
EC50 Daphnia 1	3.2 mg/l (24 h; Daphnia sp.; Locomotor effect)
Threshold limit algae 1	3.7 mg/l (72 h; Scenedesmus subspicatus)
Methylene Chloride (75-09-2)	
LC50 fish 1	193 mg/l (96 h; Pimephales promelas; Flow-through system)
EC50 Daphnia 1	168.2 mg/l (48 h; Daphnia magna)
LC50 fish 2	220 mg/l (96 h; Lepomis macrochirus; Flow-through system)
Threshold limit algae 1	1450 mg/l (192 h; Scenedesmus quadricauda; Cell numbers)
Threshold limit algae 2	550 mg/l (192 h; Microcystis aeruginosa)
40.0 Development and development	
12.2. Persistence and degradability	
8270 Benzidines Standard	
Persistence and degradability	May cause long-term adverse effects in the environment.
benzidine (92-87-5)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil.
Persistence and degradability 3,3'-dichlorobenzidine (91-94-1)	
3,3'-dichlorobenzidine (91-94-1)	Adsorbs into the soil.
3,3'-dichlorobenzidine (91-94-1) Persistence and degradability	Adsorbs into the soil.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.         Bioaccumulative potential	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water. Not readily biodegradable in water. Biodegradable in the soil.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.         Bioaccumulative potential         8270 Benzidines Standard	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water. Not readily biodegradable in water. Biodegradable in the soil.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         benzidine (92-87-5)	Adsorbs into the soil.  Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air.  Not readily biodegradable in water.  Not readily biodegradable in water. Biodegradable in the soil.  Not established.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         benzidine (92-87-5)         BCF fish 1	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water. Not readily biodegradable in water. Biodegradable in the soil. Not readily biodegradable in water. Biodegradable in the soil. Soft (Gambusia affinis)
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         benzidine (92-87-5)         BCF fish 1         BCF fish 2	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water. Not readily biodegradable in water. Biodegradable in the soil. Not readily biodegradable in water. Biodegradable in the soil. Streadily biodegradable in water. Biodegradable in the soil.
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         benzidine (92-87-5)         BCF fish 1         BCF other aquatic organisms 1	Adsorbs into the soil.         Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air.         Not readily biodegradable in water.         Not readily biodegradable in water. Biodegradable in the soil.         Not readily biodegradable in water. Biodegradable in the soil.         Soft (Gambusia affinis)         38 - 42 (908 h; Lepomis macrochirus; Muscles)         2512 (Chlorophyta)
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         benzidine (92-87-5)         BCF fish 1         BCF other aquatic organisms 1         BCF other aquatic organisms 2	Adsorbs into the soil.  Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air.  Not readily biodegradable in water.  Not readily biodegradable in water. Biodegradable in the soil.  Not established.  55 (Gambusia affinis) 38 - 42 (908 h; Lepomis macrochirus; Muscles) 2512 (Chlorophyta) 293 (Daphnia magna)
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         benzidine (92-87-5)         BCF fish 1         BCF other aquatic organisms 1         BCF other aquatic organisms 2         Log Pow	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water. Not readily biodegradable in water. Biodegradable in the soil. Not readily biodegradable in water. Biodegradable in the soil.  Not established. 55 (Gambusia affinis) 38 - 42 (908 h; Lepomis macrochirus; Muscles) 2512 (Chlorophyta) 293 (Daphnia magna) 1.34 - 1.81
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         benzidine (92-87-5)         BCF fish 1         BCF other aquatic organisms 1         BCF other aquatic organisms 2         Log Pow         Bioaccumulative potential	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water. Not readily biodegradable in water. Biodegradable in the soil. Not readily biodegradable in water. Biodegradable in the soil.  Not established. 55 (Gambusia affinis) 38 - 42 (908 h; Lepomis macrochirus; Muscles) 2512 (Chlorophyta) 293 (Daphnia magna) 1.34 - 1.81
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         benzidine (92-87-5)         BCF fish 1         BCF other aquatic organisms 1         BCF other aquatic organisms 2         Log Pow         Bioaccumulative potential         3,3'-dichlorobenzidine (91-94-1)	Adsorbs into the soil. Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air. Not readily biodegradable in water. Not readily biodegradable in water. Biodegradable in the soil. Not readily biodegradable in water. Biodegradable in the soil.  Not established. 55 (Gambusia affinis) 38 - 42 (908 h; Lepomis macrochirus; Muscles) 2512 (Chlorophyta) 293 (Daphnia magna) 1.34 - 1.81 Low potential for bioaccumulation (BCF < 500).
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         benzidine (92-87-5)         BCF fish 1         BCF other aquatic organisms 1         BCF other aquatic organisms 2         Log Pow         Bioaccumulative potential         3,3'-dichlorobenzidine (91-94-1)         BCF fish 1	Adsorbs into the soil.         Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air.         Not readily biodegradable in water.         Not readily biodegradable in water.         Not readily biodegradable in water. Biodegradable in the soil.         Soft readily biodegradable in water. Biodegradable in the soil.         Not readily biodegradable in water. Biodegradable in the soil.         Soft cambusia affinis)         38 - 42 (908 h; Lepomis macrochirus; Muscles)         2512 (Chlorophyta)         293 (Daphnia magna)         1.34 - 1.81         Low potential for bioaccumulation (BCF < 500).
3,3'-dichlorobenzidine (91-94-1)         Persistence and degradability         3,3'-Dimethylbenzidine (119-93-7)         Persistence and degradability         Methylene Chloride (75-09-2)         Persistence and degradability         12.3.       Bioaccumulative potential         8270 Benzidines Standard         Bioaccumulative potential         BCF fish 1         BCF fish 2         BCF other aquatic organisms 1         BCF other aquatic organisms 2         Log Pow         Bioaccumulative potential         3,3'-dichlorobenzidine (91-94-1)         BCF fish 1         BCF fish 1	Adsorbs into the soil.         Inherently biodegradable. Not readily biodegradable in water. Photolysis in the air.         Not readily biodegradable in water.         Not readily biodegradable in water.         Not readily biodegradable in water. Biodegradable in the soil.         State:         Not established.         S5 (Gambusia affinis)         38 - 42 (908 h; Lepomis macrochirus; Muscles)         2512 (Chlorophyta)         293 (Daphnia magna)         1.34 - 1.81         Low potential for bioaccumulation (BCF < 500).

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3,3'-Dimethylbenzidine (119-93-7)	3.3'-Dimethylbenzidine (119-93-7)			
BCF fish 1	4.8 - 83 (Cyprinus carpio; Test duration: 8 weeks)			
Log Pow	2.45 (Experimental value)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
Methylene Chloride (75-09-2)				
BCF fish 1	2 - 40 (Cyprinus carpio; Test duration: 6 weeks)			
Log Pow	1.25 (Experimental value)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
12.4. Mobility in soil				
Methylene Chloride (75-09-2)				
Surface tension	0.028 N/m (20 °C)			
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.			
12.5. Results of PBT and vPvB assess	ment			
No additional information available				
12.6. Other adverse effects				
Additional information	: Avoid release to the environment			
Additional mormation				
<b>SECTION 13: Disposal considerat</b>	lions			
13.1. Waste treatment methods				
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.			
Ecology - waste materials	: Avoid release to the environment.			
SECTION 14: Transport information	bn			
In accordance with ADR / RID / IMDG / IATA	/ ADN			
14.1. UN number				
UN-No. (ADR)	: 2810			
UN-No.(IATA)	: 2810			
14.2. UN proper shipping name				
Proper Shipping Name (ADR)	: TOXIC LIQUID, ORGANIC, N.O.S.			
Proper Shipping Name (IATA)	: TOXIC LIQUID, ORGANIC, N.O.S.			
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.			
	: TOXIC LIQUID, ORGANIC, N.O.S.			
Proper Shipping Name (ADN)				
Transport document description (ADR)	: UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (dichloromethane(75-09-2)), 6.1, III, (E)			
14.3. Packing group				
Class (ADR)	: 6.1			
Classification code (ADR)	: T1			
Class (IATA)	: 6.1			
Class (IMDG)	: 6.1			
Class (ADN)	: 6.1			
Hazard labels (ADR)	: 6.1			
	6			
Hazard labels (IATA)	: 6.1			
	6			
44.4 Decking another	,			
14.4. Packing group				
Packing group (ADR) Packing group (IATA)	: III : III			
14.5. Environmental hazards	. m			
Other information	· No supplementary information available			
	: No supplementary information available.			

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

14.6. Special precautions for user		
14.6.1. Overland transport		
Hazard identification number (Kemler No.)	: 60	
Classification code (ADR)	: T1	
Orange plates	60 2810	
Special provision (ADR)	: 274, 614	
Transport category (ADR)	: 2	
Tunnel restriction code (ADR)	: E	
Limited quantities (ADR)	: 51	
Excepted quantities (ADR)	: E1	
<ul><li>14.6.2. Transport by sea</li><li>No additional information available</li><li>14.6.3. Air transport</li></ul>		
CAO packing instructions (IATA)	: 663	
CAO max net quantity (IATA)	: 220L	
PCA packing instructions (IATA)	: 655	
PCA Limited quantities (IATA)	: Y642	
PCA limited quantity max net quantity (IATA)	: 2L	
PCA max net quantity (IATA)	: 60L	
PCA Excepted quantities (IATA)	: E1	
Special provision (IATA)	: A137	
ERG code (IATA)	: 6L	
14.6.4. Inland waterway transport		
Carriage prohibited (ADN)	: No	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable		

#### Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

No additional information available

15.2.	Chemical safety assessment		
No chemical safety assessment has been carried out			
SECTION 16: Other information			
Data so	purces	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	

Other information

#### PHV SDS EU

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: None.