

Safety Data Sheet

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Version: 6

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product Identifier**

Substance or Mixture name : Diluted Alkydresin Paint
 EC No. :
 REACH No. :
 CAS No. :

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

Sector of uses [SU] : Industrial uses
 Use of the substance/mixture : Coatings and paints, fillers, putties, thinners
 Uses advised against : Use other than recommended purposes

1.3 Details of the Supplier of the Safety Data Sheet

Supplier : iBou Inc.
 Address : 81 Nakao, Nago city, Okinawa pref., Japan
 P.O.Box : 905-1153
 Telephone : 123-4567
 Telefax : 123-5678
 E-Mail : iboughs@yahoo.co.jp

1.4 Emergency telephone number

Emergency telephone number : 234-5678
 Remark : Only available during office hours.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture :**

Flammable liquids:Flam. Liq. 2
 Acute toxicity oral:Not classified
 Acute toxicity Dermal:Not classified
 Acute toxicity inhalation:Acute Tox. 4
 Skin corrosion/irritation:Skin Corr. 2
 Serious eye damage/eye irritation:Eye Irrit. 2
 Respiratory sensitization:Not classified
 Skin sensitization:Not classified
 Germ cell mutagenicity:Muta. 1B
 Carcinogenicity:Carc. 1B
 Reproductive toxicity:Repr. 1A
 Specific target organ toxicity - Single exposure:STOT SE3(Respir.-Irrit.)
 Specific target organ toxicity -Repeated exposure:STOT RE 2
 Aspiration hazard:Not classified
 Hazardous to the aquatic environment-Acute hazard:Not classified
 Chronic aquatic hazard:Aquatic Chronic 2
 Hazardous to the ozone layer:Classification not possible
 Reproductive toxicity (Effects on or via lactation):Classification not possible

2.2. Label elements :

Hazard pictograms:



Signal word : Danger

Hazard statements :

- H225 · Highly flammable liquid and vapour
- H315 · Causes skin irritation
- H319 · Causes serious eye irritation
- H332 · Harmful if inhaled
- H335 · May cause respiratory irritation
- H340 · May cause genetic defects
- H350 · May cause cancer
- H360 · May damage fertility or th unborn child
- H373 · May cause damage to organs through prolonged or repeated exposure
- H411 · Toxic to aquatic life with long lasting effects

Precautionary statement :

【Prevention】

- P201 · Obtain special instructions before use
- P202 · Do not handle until all safety precautions have been read and understood
- P210 · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 · Keep container tightly closed.
- P240 · Ground/bond container and receiving equipment.
- P241 · Use explosion-proof electrical/ventilating/lighting equipment.
- P242 · Use only non-sparking tools.
- P243 · Take precautionary measures against static discharge.
- P260 · Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 · Wash hands thoroughly after handling.
- P271 · Use only outdoors or in a well-ventilated area.
- P273 · Avoid release to the environment.
- P280 · Wear protective gloves/protective clothing/eye protection/face protection.

【Response】

- P302+P352 · IF ON SKIN: Wash with plenty of water/soap.
- P303+P361+P353 · IF ON SKIN(or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 · IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 · IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 · IF exposed or concerned: Get medical advice/attention.
- P314 · Get medical advice/attention if you feel unwell.
- P332+P313 · If skin irritation occurs, Get medical advice/attention.
- P337+P313 · If eye irritation persists, Get medical advice/attention.
- P362+P364 · Take off contaminated clothing and wash it before reuse.
- P370+P378 · In case of fire: Use proper extinguishers to extinguish.
- P391 · Collect spillage.

【Storage】

- P403+P233 · Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 · Store in a well-ventilated place. Keep cool.
- P405 · Store locked up.

【Disposal】

- P501 · Dispose of contents/container in accordance with relevant regulations..

Supplemental Hazard information (EU) :

EUH201 EUH208 EUH210

94.22% of the mixture consists of components of unknown toxicity-oral 92.10% of the mixture consists of components of unknown toxicity-dermal 88.78% of the mixture consists of components of unknown toxicity-inhalation

SECTION 3: Composition / information on ingredients

: Mixtures

Substance	REACH Reg. No.	% (weight)	Type of No	No.	Hazard class,category, H code
Ethyl acetate	Not available	0~5%	CAS	141-78-6	Flam. Liq. 2,STOT SE 3,Eye Irrit. 2 H225,H336,H319

n-Propyl acetate	Not available	0~5%	CAS	109-60-4	Flam. Liq. 2,STOT SE 3,Eye Irrit. 2 H225,H336,H319
n-Amyl acetate	Not available	0~5%	CAS	628-63-7	Flam. Liq. 3 H226
Ethylbenzene	123-57	0~5%	CAS	100-41-4	Flam. Liq. 2,Acute Tox. 4,Asp. Tox. 1,STOT RE 2 H225,H332,H304,H373 (hearing organs)
White spirit, max 20% aromates	Not available	0~5%	CAS	8052-41-3	Carc. 1B,Muta. 1B,Asp. Tox. 1,STOT RE 1 H350,H340,H304,H372 (central nervous system)
Toluene	Not available	5~10%	CAS	108-88-3	Flam. Liq. 2,Repr. 2,Asp. Tox. 1,STOT SE 3,STOT RE 2,Skin Irrit. 2 H225,H361d ,H304,H336,H373 ,H315
Formaldehyde	Not available	0~5%	CAS	50-00-0	Carc. 1B,Muta. 2,Acute Tox. 3,Acute Tox. 3,Acute Tox. 3,Skin Corr. 1B,Skin Sens. 1 H350,H341,H331,H311,H301,H 314,H317
Isomelamine		15~20%	CAS	108-78-1	
Alkyd resins		0~5%	CAS	63148-69-6	
Butan-2-one	Not available	0~5%	CAS	78-93-3	Flam. Liq. 2,STOT SE 3,Eye Irrit. 2 H225,H336,H319
Xylene, or mixed isomers	Not available	0~5%	CAS	1330-20-7	Flam. Liq. 3,Acute Tox. 4,Acute Tox. 4,Skin Irrit. 2 H226,H332,H312,H315
Titanium dioxide		0~5%	CAS	13463-67-7	Carc. 2 H351
lead sulphate	Not available	0~5%	CAS	7446-14-2	Acute Tox. 4,Aquatic Acute 1,Aquatic Chronic 1,Repr. 1A,STOT RE 2,Acute Tox. 4 H302,H400,H410,H360Df,H373 ,H332
n-Butyl acetate	Not available	0~5%	CAS	123-86-4	Flam. Liq. 3,STOT SE 3 H226,H336
2-Methylpropan-1-ol	Not available	0~5%	CAS	78-83-1	Flam. Liq. 3,STOT SE 3,STOT SE 3,Skin Irrit. 2,Eye Dam. 1 H226,H335,H336,H315,H318
Propan-2-ol	Not available	45~50%	CAS	67-63-0	Flam. Liq. 2,STOT SE 3,Eye Irrit. 2 H225,H336,H319
Lead chromate (as Cr)	Not available	5~10%	CAS	7758-97-6	Carc. 1B,Repr. 1A,STOT RE 2,Aquatic Acute 1,Aquatic Chronic 1 H350,H360Df,H373 ,H400,H410

Additional information :

Full text of H-statements to be referred in SDS Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information :

In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. Observe risk of aspiration if vomiting occurs. Remove affected person from the danger area and lay down. Remove contaminated, saturated clothing immediately. Wash thoroughly the body (shower or bath). Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation :

No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. If breathing is irregular or stopped, administer artificial respiration. After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor. In case of respiratory tract irritation, consult a physician. Provide fresh air. In case of inhaling spray mist, consult a physician.

Following skin contact

Wash immediately with : Water and soap

In the case of contact with hot melt, treat skin with :

Water and soap

Do not wash with : No data available

After eye contact :

Rinse immediately and cautiously with water. Remove contact lenses if it is easy to do. Rinse with running water for 10 to 15 minutes. Then get a medical attention of an ophthalmologist.

After ingestion :

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Induce vomiting when the affected person is not unconscious.

If swallowed immediately drink :

Water, to which activated charcoal may be added

Self-protection of the first aider :

No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

The following symptoms may occur :

Cough Allergic reactions Asthmatic complaints Dyspnoea Vomiting Fever Pulmonary oedema Pulmonary irritation Pneumonia Nausea Dry skin, redness, pain Skin burns, blisters Redness, pain and burns in the eyes Blurred vision Allergic inflammation (rash)

Allergic anaphylactic shock Asthmatic complaints Respiratory complaints Drowsiness Pulmonary oedema

Effects : Nausea Lung irritation Pneumonia Dry skin, redness, pain Skin burns, blisters Redness, pain and burns in the eyes Blurred vision Allergic inflammation (rash)

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

Notes for the doctor :

First Aid, decontamination, treatment of symptoms. Where appropriate artificial ventilation. After decontamination of the skin pain treatment and shock prophylaxis. Treat symptomatically.

Special treatment :

In the case of bluish discoloration (lips, earlobes, finger nails) give oxygen as soon as possible. In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks). Treat skin and mucous membrane with antihistamines and corticosteroid preparations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media :

Nitrogen alcohol resistant foam BC-powder ABC-powder Carbon dioxide (CO₂) Dry sand Water mist

Unsuitable extinguishing media :

Full water jet Sand (wet)

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products :

Carbon dioxide (CO₂) Nitrogen oxides (NO_x) Carbon monoxide. Pyrolysis products, toxic

5.3. Advice for firefighters

Special protective equipment for firefighters:

Use suitable breathing apparatus. Protective clothing. Rubber boots rubber gloves. In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information:

Do not inhale explosion and combustion gases. Burning produces heavy smoke. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Remove product from area of fire. Remove heat to avoid pressure rise. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Move undamaged containers from immediate hazard area if it can be done safely. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions :**

Use personal protection equipment. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. Beware of reignition.

Protective equipment :

Use appropriate respiratory protection. Wear protective gloves/protective clothing. Wear appropriate eye protection. Wear appropriate body protection.

Emergency procedures :

Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety.

6.2. Environmental precautions :

Cover drains. Suppress gases/vapours/mists with water spray jet. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it. Ensure waste is collected and contained. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Ensure all waste water is collected and treated via a waste water treatment plant.

6.3. Methods and materials for containment and cleaning up**For containment**

Suitable material for taking up:

Sand Absorbing material, organic Kieselguhr Earth Sawdust Water (with cleaning agent)

For cleaning up

Suitable material for diluting or neutralising :

No data available

6.4. Reference to other sections :

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Protective measure****Advice on safe handling**

Avoid : Inhalation of vapours or spray/mists Skin contact Eye contact Generation/formation of mist

Handle under (gas) : Nitrogen Carbon dioxide (CO₂)

Handle under (liquid) : Not applicable

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Handle and open container with care. Working places should be designed to allow cleaning at any time. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. Do not spray on naked flames or any incandescent material. Only use the material

Remark : in places where open light, fire and other flammable sources can be kept away. Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Never use pressure to empty container. Restrict access while emptying or maintaining the unit. Put lids on containers immediately after use.

Measures to prevent fire

Keep wet with : Not applicable

Do not mix with : Oxidizer

Keep away from : Oxidising agent

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Use only antistatically equipped (spark-free) tools. Wear anti-static

Remark : footwear and clothing Emergency cooling must be provided for in case of a fire in the vicinity. Vapours can form explosive mixtures with air. When hot, product develops flammable vapours. When using do not smoke.

Measures to prevent aerosol and dust generation

During filling, metering and sampling should be used if possible :

Devices with local exhaust

Use the following local exhaust ventilation type :

Receptor hood for fumes/vapours Hand tool with integrated exhaust

Environmental precaution :

See section 8. Shafts and sewers must be protected from entry of the product.

Special requirements or handling rules :

Floors, walls and other surfaces in the hazard area must be cleaned regularly. Carry out filling operations only at stations with exhaust ventilation facilities. Observe and take care for proper conditions of sealings and connection threads. Re-circulation of exhaust air is not recommended. Do not put any product-impregnated cleaning rags into your trouser pockets.

Advice on general occupational hygiene :

Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff. Work in well-ventilated zones or use proper respiratory protection. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Used working clothes should not be worn outside the work area. Immediately remove any contaminated clothing, shoes or stockings. Street clothing should be stored separately from work clothing.

7.2. Conditions for safe storage, including any incompatibilities

Packaging materials

Suitable container/equipment material : Metal Material, solvent-resistant Polyolefine Polytetrafluoroethylene (PTFE) Polyethylene (PE)

Unsuitable container/equipment material : No data available

Hints on joint storage

Storage class : Flammable liquids

Materials to avoid : Oxidising agent

Keep only in the original container in a cool, well-ventilated place. Keep locked up.

Further information on storage conditions : Protect containers against damage. Keep container tightly closed in a cool, well-ventilated place. Store detached.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Ingredient	CAS NO.	EC No	Country	TWA		STEL	
				ppm	mg/m3	ppm	mg/m3
Lead chromate (as Cr)	7758-97-6		GB		0.01		
Toluene	108-88-3		GB	50	191	100	384
Xylene, or mixed isomers	1330-20-7		GB	50	220	100	441
Ethylbenzene	100-41-4		GB	100	441	125	552
Propan-2-ol	67-63-0	200-661-7	GB	400	999	500	1250
Ethyl acetate	141-78-6	205-500-4	GB	200	730	400	1460
n-Propyl acetate	109-60-4	203-686-1	GB	200	849	250	1060
n-Butyl acetate	123-86-4	204-658-1	GB	150	724	200	966
n-Amyl acetate	628-63-7		GB	50	270	100	541
Butan-2-one	78-93-3		GB	200	600	300	899
Formaldehyde	50-00-0		GB	2	2.5	2	2.5
2-Methylpropan-1-ol	78-83-1	201-148-0	GB	50	154	75	231
Titanium dioxide	13463-67-7	236-675-5	GB		4		

Biological limit values

Ingredient	CAS NO.	EC No	Country	Unit	Limit value	Parameter
Lead chromate (as Cr)	7758-97-6		GB	µmol/mol creatinine	10	chromium (VI) compounds
Xylene, or mixed isomers	1330-20-7		GB	mmol/mol creatinine	650	methyl hippuric acid
Butan-2-one	78-93-3		GB	µmol/L	70	butan 2-one

8.2. Exposure controls

Appropriate engineering controls

Initial Remarks : See section 7. Additional information on plant design: Personal protective equipment (protective glasses, protective gloves, masks, etc.) should be inspected regularly and recorded in the record book. Regularly inspect eye washers, exhaust equipment, etc. used in an emergency and record them in the record book. In order to keep the air concentration below the recommended control concentration / allowable concentration, take measures such as sealing the process, local exhaust ventilation, and other equipment.

Substance/mixture related measures to prevent exposure during identified users :

Fresh air (open windows and doors) is necessary.

Technical measures to prevent exposure :

Reduce exposure to fume by keeping operating temperatures as low as possible taking into account occupational exposure limits and safe handling temperatures . Where practicable handle within an enclosed process. Alternatively local exhaust ventilation should be considered. Install an explosion-proof local exhaust system. Use explosion-proof electrical/ventilating/lighting/equipment. Install an eyewash and safety shower in the workplace where this substance is stored or handled.

Personal protection equipment

Eye/face protection

Suitable eye protection : Eye glasses Eye glasses with side protection

Remark: No data available

Skin protection

Hand protection

Suitable gloves type : Protective gloves Gloves with long cuffs

PVC (Polyvinyl chloride) PE (polyethylene) NR (natural rubber, natural latex) CR

Suitable material : (polychloroprene, chloroprene rubber) NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber) FKM (fluoro rubber) PVA (Polyvinyl alcohol)

Required properties : antistatic liquid-tight gas-tight dust-tight cut-resistant

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it

Remark : is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

Suitable protective clothing : Protective gloves/protective clothing/eye protection/face protection.

Required properties : antistatic flame-resistant with conductible sole Type 3 Liquid-tight

Recommended material : No data available

Respiratory protection

Respiratory protection necessary at :

exceeding exposure limit values insufficient ventilation insufficient exhaust prolonged exposure Handling larger quantities aerosol or mist formation high concentrations

According to experience this refers to the following tasks :

Filling and transfer charging of mixers

Suitable respiratory protection apparatus :

ABEK-P1

Remarks :

Observe the wear time limits as specified by the manufacturer. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Check leak tightness/impermeability prior to use. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only wear fitting, comfortable and clean protective clothing.

Environmental exposure controls

Technical measures to prevent exposure

Use the following filter types for cleaning waste gases :

No data available

Use the following recovery and/or abatement technique for cleaning waste gases :

Adsorption Condensation

Use the following chemical treatment methods for waste water :

Thermal treatment-Distillation/Rectification Precipitation Oil-water separation Adsorption

SECTION 9: Physical and chemical properties

Physical state	Liquid
Color	Opaque
Odour	Pungent
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	82.00°C~110.60°C
Flash point	19,5°C
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available

Vapour pressure	No data available
Vapour density	No data available
Density	No data available
Solubility(ies)	Insoluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	200°C
Decomposition temperature	No data available
Viscosity	20.5000m ² /s
Explosive properties	No data available
Oxidising properties	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity :

No data available Hazardous reactions do not occur under normal conditions.

10.2. Chemical stability :

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

In case of melting :

Not applicable

In case of vaporization :

Hazard of catch fire Danger of explosion

In case of freezing :

Deformation of the container due to volume change

10.4. Condition to avoid

In dry state :

No data available

In an isolated state :

No data available

In fine dispersion/spraying/misting :

Danger of explosion

In case of warming :

Danger of bursting container.

In case of light influence :

No data available

In case of impact or pressure influence :

No data available

In case of air intake :

No data available

In case of exceeding the storage time :

No data available

In case of exceeding the storage temperature :

Danger of bursting container.

10.5. Incompatible materials

Materials to avoid

Oxidising agent

10.6. Hazardous decomposition products:

Does not decompose when used for intended uses.

10.7. Additional information

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity oral
 Formaldehyde(Acute Tox. 3) /lead sulphate(Acute Tox. 4)
 Acute toxicity Dermal
 Formaldehyde(Acute Tox. 3) /Xylene, or mixed isomers(Acute Tox. 4)
 Acute toxicity inhalation
 Formaldehyde(Acute Tox. 3) /lead sulphate(Acute Tox. 4) /Xylene, or mixed isomers(Acute Tox. 4) /Ethylbenzene(Acute Tox. 4)
 Skin corrosion/irritation
 Toluene(Skin Corr. 2) /Formaldehyde(Skin Corr. 1B) /2-Methylpropan-1-ol(Skin Corr. 2) /Xylene, or mixed isomers(Skin Corr. 2)

Serious eye damage/eye irritation
 Propan-2-ol(Eye Irrit. 2) /Ethyl acetate(Eye Irrit. 2) /n-Propyl acetate(Eye Irrit. 2) /Butan-2-one(Eye Irrit. 2) /2-Methylpropan-1-ol(Eye Dam.1)
 Skin sensitization
 Formaldehyde(Skin. Sens. 1)
 Germ cell mutagenicity
 Formaldehyde(Muta. 2) /White spirit, max 20% aromates(Muta. 1B)
 Carcinogenicity
 Isomelamine(Carc. 2) /Formaldehyde(Carc. 1B) /Lead chromate (as Cr)(Carc. 1B) /Titanium dioxide(Carc. 2) /White spirit, max 20% aromates(Carc. 1B)

Reproductive toxicity
 Toluene(Repr. 2) /Lead chromate (as Cr)(Repr. 1A) /lead sulphate(Repr. 1B)
 Specific target organ toxicity - Single exposure
 Toluene(STOT SE3(Respir.-Irrit.)) /Propan-2-ol(STOT SE3(Respir.-Irrit.)) /Ethyl acetate(STOT SE3(Respir.-Irrit.)) /n-Propyl acetate(STOT SE3(Respir.-Irrit.)) /n-Butyl acetate(STOT SE3(Respir.-Irrit.)) /Butan-2-one(STOT SE3(Respir.-Irrit.)) /2-Methylpropan-1-ol(STOT SE3(Respir.-Irrit.))
 Specific target organ toxicity -Repeated exposure
 Toluene(STOT RE 2) /Isomelamine(STOT RE 2) /Lead chromate (as Cr)(STOT RE 2) /lead sulphate(STOT RE 2) /White spirit, max 20% aromates(STOT RE 1) /Ethylbenzene(STOT RE 2)
 Aspiration hazard
 Toluene(Asp. Tox. 1) /White spirit, max 20% aromates(Asp. Tox. 1) /Ethylbenzene(Asp. Tox. 1)

11.2. Symptoms related to the physical, chemical and toxicological characteristics

In case of ingestion :

No data available

In case of skin contact :

Has degreasing effect on the skin.

In case of inhalation :

When inhaled, the lungs and trachea are affected.

11.3. Additional information :

No data available

SECTION 12: Ecological information

12.1. Toxicity :

108-88-3, Toluene :

Algae: *Chlorella vulgaris* EC50(mg/L) 245(24-h) *Scenedesmus subspicatus* EC50(mg/L) 160(48-h),
Selenastrum capricornutum EC50(mg/L) > 433(96-h):
 Crustacean: *Daphnia magna* EC50(mg/L) 19.6(48-h):Swimming inhibition
 Fish: *Brachydanio rerio* LC50(mg/L) 25(48-h)*Cyprinodon*
variegatus LC50(mg/L) 13(96-h)*Gambusia affinis* LC50(mg/L) 1,180(96-h),*Lepomis macrochirus* LC50(mg/L) 24(96-h)*Poecilia reticulata* LC50(mg/L) 59.3(96-h)

Others:*Photobacterium phosphoreum* EC50(mg/L) 19.7(30-min)

50-00-0, Formaldehyde :

Algae:*Scenedesmus. sp.* EC50(mg/L) 0.3(—)

Crustacean: *Cypridopsis sp.* shrimp LC50(mg/L) 1.05(96-h),*Daphnia magna* LC50(mg/L) 2.0(48-h)

Fish: *Oncorhynchus mykiss* LC50(mg/L) 73.5(96-h), *Lepomis macrochirus* LC50(mg/L) 100(96-h), *Morone saxatilis* (Striped bass) LC50(mg/L) 6.7(96-h)

Others : Chilomonas paramecium LC50(mg/L) 4.5(48-h) Corbicula sp LC50(mg/L) 126(96-h),Notonecta sp. LC50(mg/L) 835(96-h), E.coli LC50(mg/L) about 1(—)

100-41-4, Ethylbenzene :

Algae : Selenastrum capricornutum EC50(mg/L) 4.6(72-h): Proliferation inhibition, Crustaceans : Daphnia magna EC50(mg /L) 2.1(48-h) Swimming inhibition, Artemia salina EC50(mg /L) 9.2(48-h), Fish : Morone saxatillised bass LC50(mg /L) 4.0(96-h,)Oncorhynchus

Mykiss LC50(mg / L) 4.2(96-h)

67-63-0, Isopropyl alcohol :

Algae : Scenedesmus Subspicatus EC50(mg/L) >1,000(72-h) : Proliferation inhibition, Crustaceans : Daphnia magna EC50(mg/L) 9,714(24-h) : swimming inhibition, Crangon crangon LC50(mg/L) 903(96-h), Fish : Rasbora Heteomorpha LC50(mg/L) 4,200(96-h), Pimephales promelas LC50(mg/L) 6,120(96-h)

108-78-1, Melamine :

Algae : Scenedesmus pannonicus EC50(mg/L) 940(96-h) : Proliferation inhibition, Crustaceans: Daphnia magna EC50(mg/L) >2,000(48-h) : swimming inhibition, Fish: Poecilia reticulata LC50(mg/L) >3,000(96-h)

12.2. Persistence and degradability :

108-88-3, Toluene :

Aerobic: good. test period 2 weeks, 100mg/L, decomposition rate by BOD 112~129 %, Anaerobic:no report

Abiotic: Reactivity with OH radical:

in troposphere air reaction rate constant 6.1×10^{-12} cm³/mol.sec half time under OH radical concentration

$5.0 \times 10^5 \sim 1 \times 10^6$ mol/cm³ is calculated 1~3 days

50-00-0, Formaldehyde :

Aerobic: good. decomposition rate by BOD 91 %,,

Anaerobic: no report

Abiotic: Reactivity with OH radical: in clear air half time is reported 19 hours, in dirty air, half time is reported 19/2 hours. reactivity by direct photodecomposition: half time is reported 6.0 hours

100-41-4, Ethylbenzene :

Aerobic: good, decomposition rate by BOD 81~126 %,

Aerobic: by aerobic reactor, not decomposed after 110 days reported. under condition of aerobic aquifer

environment, survival rate after 120 weeks is less than 1 %, Ethylbenzene is supposed to be aerobic decomposed completely.

Abiotic: reactivity with OH radical; in ratetroposphere air, half time is reported, 5.5 hours in summer time, 24 hours in winter time. as reaction products, Eethylphenol, Benzaldehyde, Acetophenone and m -,p-Ethylnitrobenzene are reported. Photodecomposition in water; photodecomposed under Acetophenone by sensitizer, 1-Phenylethanol, 1-Phenylethanone and Benzaldehyde are reported to be produced.

67-63-0, Isopropyl alcohol:

Aerobic: good, decomposition rate by BOD 86 %,

Anaerobic: no report.

Abiotic: Reactivity with OH radical; in ratetroposphere air, reaction rate, 6.2×10^{-12} cm³/mol.sec(room temp.), OH radical conc. $5.0 \times 10^5 \sim 1 \times 10^6$ mol/cm³, half time is calculated 1.1~2.3 days.

Reactivity with NO₃ radical; reaction rate 2.3×10^{-15} m³/mol.sec.(25 deg.C), in ratetroposphere air, NO₃ radical conc. 2.4×10^8 mol./cm³ in night, half time is reported 145 days.

108-78-1, Melamine :

Aerobic: difficult, Decomposition rate by BOD 0 %.

Anaerobic: no report.

Abiotic: no report

12.3. Bioaccumulative potential :

108-88-3, Toluene : No report

50-00-0, Formaldehyde : No report

100-41-4, Ethylbenzene : Logistic number of concentration factor: 1.9(golden fish), 0.67(clam)

67-63-0, Isopropyl alcohol : No

report

108-78-1, Melamine : Low concentration,

test period 6 weeks, No.1section:test conc 2 mg/L, concentration factor < 0.38 No.2 section: conc. 0.2 mg/L,

concentration factor < 3.8

12.4. Mobility in soil :

108-88-3, Toluene : None

50-00-0, Formaldehyde : None

100-41-4, Ethylbenzene : None

67-63-0, Isopropyl alcohol : None

108-78-1, Melamine : None

12.5. Hazardous to the ozone layer :

- 108-88-3、Toluene : Not applicable
- 50-00-0、Formaldehyde : Not applicable
- 100-41-4、Ethylbenzene : Not applicable
- 67-63-0、Isopropyl alcohol : Not applicable
- 108-78-1、Melamine : Not applicable

12.6. Other adverse effects :

Observe local regulations concerning effluent treatment. If product enters soil, it will be mobile and may contaminate groundwater. Discharge into the environment must be avoided. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/packaging disposal

Properties of waste which render it hazardous :

Mutagenic Toxic for reproduction carcinogenic Toxic Harmful Irritant Highly flammable Sensitising

Waste treatment option

Appropriate disposal/Product :

Dispose of waste according to applicable legislation.

Appropriate disposal/Package :

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks :

Do not mix with other wastes. Delivery to an approved waste disposal company. Dispose according to legislation.

SECTION 14: Transport information

14.1 UN number

Land transport(ADR/RID)	1263
Inland waterway transport(ADN)	1263
Sea transportation(IMDG)	1263
Air transportationICAO-TI/IATA-DGR	1263

14.2. UN proper shipping name

Land transport(ADR/RID)	Paint or Paint related material
Inland waterway transport(ADN)	Paint or Paint related material
Sea transportation(IMDG)	Paint or Paint related material
Air transportationICAO-TI/IATA-DGR	Paint or Paint related material

14.3. Transport hazard class(es)

Land transport(ADR/RID)	3
Inland waterway transport(ADN)	3
Sea transportation(IMDG)	3
Air transportationICAO-TI/IATA-DGR	3

14.4. Packing group

Land transport(ADR/RID)	II
Inland waterway transport(ADN)	II
Sea transportation(IMDG)	II
Air transportationICAO-TI/IATA-DGR	II

14.5. Environmental hazards

Land transport(ADR/RID)	No data available
Inland waterway transport(ADN)	ENVIRONMENTALLY HAZARDOUS
Sea transportation(IMDG)	ENVIRONMENTALLY HAZARDOUS
Air transportationICAO-TI/IATA-DGR	No data available

14.6. Transport in bulk according to MARPOL73/78 and the IBC Code

Not applicable

14.7. Marine pollutant :

Applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**EU regulation****Authorisations and/or restrictions on use**

Authorisations : Lead chromate,CAS 7758-97-6;
by REACH TITLE VII
Ethylbenzene,;
Toluene,;
n-Propyl acetate,;
n-Butyl acetate,;
Xylene, or mixed isomers,;
Ethyl acetate,;
Formaldehyde,;
n-Amyl acetate,;
Restrictions on use : Propan-2-ol,;
Lead sulphate PbSO₄,;
Lead chromate,;
2-Methylpropan-1-ol,;
Butan-2-one,;
White spirit, max 20% aromates,;
by REACH TITLE VIII

Restriction of occupation : Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU)**Directive 2004/42/CE on the limitation of emissions of volatile organic compounds**

VOC product category : Paints and varnishes
VOC subcategory of the product : Glossy coatings for interior walls and ceilings
VOC content(g/L), ready to use condition : No data available
VOC content(g/L), delivery state : No data available
VOC-value(in g/L) : No data available
Method : No data available
Remak : No data available

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

P5b orP5c FLAMMABLE LIQUIDS

Classification according to Annex I, Part I : E2 Hazardous to the Aquatic Environment

Entry in Annex I, Part 2

Number : CAS No 50-00-0;

Named dangerous substances : Formaldehyde (concentration \geq 90 %)

Remark : No data available

Melamine,CAS No 108-78-1 ;

Melamine,CAS No 108-78-1 ;

Candidate of SVHC

Lead chromate,CAS No 7758-97-6 ;

15.2. Chemical Safety Assessment :

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Relevant H-phrases in Section 3 and EUH-phrases in Section 2 (Number and full text) :**

EUH201 Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

EUH208 Contains sensitising substance May produce an allergic reaction.

EUH210 Safety data sheet available on request.

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour

H301 Toxic if swallowed

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H311 Toxic in contact with skin
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled

H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H340 May cause genetic defects
H341 Suspected of causing genetic defects
H350 May cause cancer
H351 Suspected of causing cancer
H360Df May damage the unborn child. Suspected of damaging fertility.

H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

Data sources:

The descriptions in this Safety Data Sheet are based on the materials, information, and data available at this moment, but may be revised due to revisions to laws and regulations or new findings. When handling this product, please refer to the descriptions and take safety measures in line with the actual situation at your own risk. This Safety Data Sheet is not a guarantee of safety or quality.