

Safety Data SheetIssue date: 2025/11/16
Revision date: 2025/11/19
Version: 12**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product Identifier**Substance or Mixture name : Diluted Alkydresin Paint
EC No. :
REACH No. :
CAS No. :**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**Details of the Supplier of the Safety Data Sheet**Supplier : iBou Inc.
Address : 81 Nakao, Nago city, Okinawa pref., Japan
ZIP Code : 905-1153
Telephone : 123-4567
Telefax : 123-5678
E-Mail : iboughs@yahoo.co.jp**Emergency telephone number**Emergency telephone number : 234-5678
Remark : Only available during office hours.**SECTION 2: Hazards identification****Classification of the substance or mixture :**Flammable liquids:Cat. 2
Acute toxicity oral:Not classified
Acute toxicity Dermal:Not classified
Acute toxicity inhalation(gases):Not classified
Acute toxicity inhalation(vapours):Not classified
Acute toxicity inhalation(dust,mist):Not classified
Skin corrosion/irritation:Cat.2
Serious eye damage/eye irritation:Cat. 2A
Respiratory sensitization:Cat. 1
Skin sensitization:Cat. 1
Germ cell mutagenicity:Cat. 2
Carcinogenicity:Cat. 1
Reproductive toxicity:Cat. 1
Specific target organ toxicity - Single exposure:Cat. 1 (The central nervous system Respiratory system Cardiovascular system Blood system Liver Kidney Systemic toxicity)
Specific target organ toxicity - Single exposure:Cat. 2 (Kidney)
Specific target organ toxicity - Single exposure:Cat.3(Respiratory tract irritation)
Specific target organ toxicity - Repeated exposure:Cat. 1 (The central nervous system Kidney Blood system The optic nerve The urinary organ Respiratory system Nervous system Organ of hearing)
Specific target organ toxicity - Repeated exposure:Cat. 2 (Respiratory system Liver The spleen Testis)
Aspiration hazard:Cat. 1
Hazardous to the aquatic environment-Acute hazard:Cat.2
Hazardous to the aquatic environment-Long-term hazard:Cat.2
Hazardous to the ozone layer:Classification not possible
Reproductive toxicity (Effects on or via lactation):Additional Cat.**Label elements :**

Hazard pictograms



P501 **[Disposal]**
 ·Dispose of contents/container in accordance with relevant regulations..

Supplemental Hazard information (USA) :

22.96% of the mixture consists of ingredient(s) of unknown acute toxicity-dermal 19.60% of the mixture consists of ingredient(s) of unknown acute toxicity-inhalation(Vapors) 74.44% of the mixture consists of ingredient(s) of unknown acute toxicity-inhalation(Dusts and Mists)

SECTION 3: Composition / information on ingredients

: Mixtures

Substance	% (weight)	CAS No.	Trade Secret
Alkyd resins	4.8	63148-69-6	
n-Butyl acetate	1.2	123-86-4	
Butan-2-one	1.6	78-93-3	
Xylene, or mixed isomers	3	1330-20-7	
Titanium dioxide	3.2	13463-67-7	
White spirit, max 20% aromates	1.2	8052-41-3	
Lead chromate (as Cr)	5.76	7758-97-6	
Toluene	5	108-88-3	
Formaldehyde	0.1	50-00-0	
lead sulphate	0.88	7446-14-2	
Isomelamine	15.12	108-78-1	
Ethylbenzene	2.44	100-41-4	
n-Propyl acetate	2.4	109-60-4	
n-Amyl acetate	1.2	628-63-7	
Ethyl acetate	1.2	141-78-6	
Propan-2-ol	49	67-63-0	
2-Methylpropan-1-ol	1.9	78-83-1	

SECTION 4: First aid measures

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!

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)

Effects : Allergic anaphylactic shock Asthmatic complaints Respiratory complaints Drowsiness Pulmonary oedema Nausea Lung irritation Pneumonia Dry skin, redness, pain Skin burns, blisters Redness, pain and burns in the eyes Blurred vision Allergic inflammation (rash)

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**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)

Special hazards arising from the substance or mixture

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

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.

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**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.

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.

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

Reference to other sections :

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

SECTION 7: Handling and storage

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 in places where open light,

Remark: 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 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.

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

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

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limit values

Ingredient	CAS NO.	Country	TWA		STEL		Ceiling	
			ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Lead chromate (as Cr)	7758-97-6	US		0.005				
Toluene	108-88-3	US	200		300			500
Xylene, or mixed isomers	1330-20-7	US	100	435				
White spirit, max 20% aromates	8052-41-3	US	500	2900				
Ethylbenzene	100-41-4	US	100	435				

Propan-2-ol	67-63-0	US	400	980			
Ethyl acetate	141-78-6	US	400	1400			
n-Propyl acetate	109-60-4	US	200	840			
n-Butyl acetate	123-86-4	US	150	710			
n-Amyl acetate	628-63-7	US	100	525			
Butan-2-one	78-93-3	US	200	590			
Formaldehyde	50-00-0	US	0.75		2		
2-Methylpropan-1-ol	78-83-1	US	100	300			
Titanium dioxide	13463-67-7	US		15			

Biological limit values

Ingredient	CAS NO.	EC No	Country	Unit	Limit value	Parameter
Lead chromate (as Cr)	7758-97-6		US	µg/L	10	chromium (VI) compounds
Lead chromate (as Cr)	7758-97-6		US	µg/L	10	chromium (VI) compounds
Toluene	108-88-3		US	mg/L	0.02	Toluene in blood
Xylene, or mixed isomers	1330-20-7		US	g/g creatinine	1.5	Methylhippuric acids
Ethylbenzene	100-41-4		US	g/g creatinine	0.15	Sum of mandelic acid and phenylglyoxylic acid in urine
Propan-2-ol	67-63-0		US	mg/L	40	Acetone in urine
Butan-2-one	78-93-3		US	mg/L	2	MEK

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 uses :

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 (polychloroprene,

Suitable material : 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 is

Remark: 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	Cream
Odour	Odourless
Melting point/freezing point	No data available
Initial boiling point and boiling range	82.00°C~110.60°C
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	19,5°C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	20.5000mm ² /s
Solubility(ies)	Insoluble
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Evaporation rate	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
Particle characteristics.	No data available

SECTION 10: Stability and reactivity

Reactivity :

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

Chemical stability :

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

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

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.

Incompatible materials

Materials to avoid

Oxidising agent

Hazardous decomposition products:

Does not decompose when used for intended uses.

Additional information

No data available

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity oral

Formaldehyde(Cat. 4)LD50 600mg/kg

Acute toxicity Dermal

Formaldehyde(Cat. 3)LD50 270mg/kg/Xylene, or mixed isomers(Cat. 4)LD50 1700mg/kg

Acute toxicity inhalation(gases)

Formaldehyde(Cat. 2)LC50 480ppm

Acute toxicity inhalation(vapours)

Toluene(Cat. 4)LC50 4800ppm/Ethyl acetate(Cat. 4)LC50 14640ppm/n-Propyl acetate(Cat. 4)LC50 8000ppm/Butan-2-one(Cat. 4)LC50 11700ppm/2-Methylpropan-1-ol(Cat. 4)LC50 6336ppm/Xylene, or mixed isomers(Cat. 4)LC50 6350ppm/Ethylbenzene(Cat. 4)LC50 4000ppm

Skin corrosion/irritation

Toluene(Cat.2) /n-Amyl acetate(Cat.2) /Formaldehyde(Cat.1) /Butan-2-one(Cat.2) /2-Methylpropan-1-ol(Cat.2) /White spirit, max 20% aromates(Cat.2) /Xylene, or mixed isomers(Cat.2)

Serious eye damage/eye irritation

Toluene(Cat. 2B) /Propan-2-ol(Cat. 2A) /Ethyl acetate(Cat. 2B) /n-Propyl acetate(Cat. 2B) /n-Butyl acetate(Cat. 2B) /n-Amyl acetate(Cat. 2B) /Formaldehyde(Cat. 2A) /Butan-2-one(Cat. 2A) /2-Methylpropan-1-ol(Cat. 1) /Xylene, or mixed isomers(Cat. 2A) /Ethylbenzene(Cat. 2B)

Respiratory sensitization

Formaldehyde(Cat. 1) /Lead chromate (as Cr)(Cat. 1)

Skin sensitization

Formaldehyde(Cat. 1) /Lead chromate (as Cr)(Cat. 1)

Germ cell mutagenicity

Formaldehyde(Cat. 2) /Lead chromate (as Cr)(Cat. 2)

Carcinogenicity

Isomelamine(Cat. 1) /Formaldehyde(Cat. 1) /Lead chromate (as Cr)(Cat. 1) /lead sulphate(Cat. 1) /Titanium dioxide(Cat. 2) /Ethylbenzene(Cat. 2)

Reproductive toxicity

Toluene(Cat. 1) /Propan-2-ol(Cat. 2) /Lead chromate (as Cr)(Cat. 1) /lead sulphate(Cat. 1) /Xylene, or mixed isomers(Cat. 1) /Ethylbenzene(Cat. 1)

Specific target organ toxicity - Single exposure

Toluene(Cat. 1) /Toluene(Cat.3(Respiratory tract irritation)) /Toluene(Cat.3(Narcotic effects)) /Propan-2-ol(Cat. 1) /Propan-2-ol(Cat.3(Respiratory tract irritation)) /Ethyl acetate(Cat.3(Respiratory tract irritation)) /Ethyl acetate(Cat.3(Narcotic effects)) /n-Propyl acetate(Cat.3(Respiratory tract irritation)) /n-Propyl acetate(Cat.3(Narcotic effects)) /n-Butyl acetate(Cat.3(Respiratory tract irritation)) /n-Butyl acetate(Cat.3(Narcotic effects)) /n-Amyl acetate(Cat.3(Respiratory tract irritation)) /n-Amyl acetate(Cat.3(Narcotic effects)) /Formaldehyde(Cat. 1) /Lead chromate (as Cr)(Cat. 1) /lead sulphate(Cat. 1) /Butan-2-one(Cat. 2) /Butan-2-one(Cat.3(Respiratory tract irritation)) /Butan-2-one(Cat.3(Narcotic effects)) /2-Methylpropan-1-ol(Cat.3(Respiratory tract irritation)) /White spirit, max 20% aromates(Cat.3(Respiratory tract irritation)) /White spirit, max 20% aromates(Cat.3(Narcotic effects)) /Xylene, or mixed isomers(Cat. 1) /Xylene, or mixed isomers(Cat.3(Narcotic effects)) /Ethylbenzene(Cat.3(Respiratory tract irritation)) /Ethylbenzene(Cat.3(Narcotic effects))

Specific target organ toxicity - Repeated exposure

Toluene(Cat. 1) /Propan-2-ol(Cat. 1) /Propan-2-ol(Cat. 2) /n-Amyl acetate(Cat. 1) /Isomelamine(Cat. 1) /Formaldehyde(Cat. 1) /Lead chromate (as Cr)(Cat. 1) /lead sulphate(Cat. 1) /Titanium dioxide(Cat. 1) /Butan-2-one(Cat. 1) /White spirit, max 20% aromates(Cat. 2) /Xylene, or mixed isomers(Cat. 1) /Ethylbenzene(Cat. 1)

Aspiration hazard

Toluene(Cat. 1) /White spirit, max 20% aromates(Cat. 1) /Xylene, or mixed isomers(Cat. 1) /Ethylbenzene(Cat. 1)

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.

Additional information :

No data available

SECTION 12: Ecological information

Ecotoxicity :

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 saxatilis* 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)

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

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

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

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

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

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

UN number

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

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 transportation(ICAOTI/IATA-DGR)	Paint or Paint related material

Transport hazard class(es)

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

Packing group

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

Environmental hazards

Land transport(ADR/RID)	ENVIRONMENTALLY HAZARDOUS
Inland waterway transport(ADN)	ENVIRONMENTALLY HAZARDOUS

Sea transportation(IMDG)	ENVIRONMENTALLY HAZARDOUS
Air transportation(ICAOTI/IATA-DGR)	ENVIRONMENTALLY HAZARDOUS
Transport in bulk according to MARPOL73/78 and the IBC Code :	Not applicable
Marine pollutant :	Applicable

SECTION 15: Regulatory information

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

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory :

- CASNO : 50-00-0,Formaldehyde,,ACTIVE ;
- CASNO : 67-63-0,2-Propanol,Not SNUR,ACTIVE ;
- CASNO : 78-83-1,1-Propanol, 2-methyl-,Not SNUR,ACTIVE ;
- CASNO : 78-93-3,2-Butanone,Not SNUR,ACTIVE ;
- CASNO : 109-60-4,Acetic acid, propyl ester,Not SNUR,ACTIVE ;
- CASNO : 100-41-4,Benzene, ethyl-,Not SNUR,ACTIVE ;
- CASNO : 108-78-1,1,3,5-Triazine-2,4,6-triamine,Not SNUR,ACTIVE ;
- CASNO : 108-88-3,Benzene, methyl-,Not SNUR,ACTIVE ;
- CASNO : 123-86-4,Acetic acid, butyl ester,Not SNUR,ACTIVE ;
- CASNO : 141-78-6,Acetic acid ethyl ester,Not SNUR,ACTIVE ;
- CASNO : 628-63-7,Acetic acid, pentyl ester,Not SNUR,ACTIVE ;
- CASNO : 1330-20-7,Benzene, dimethyl-,Not SNUR,ACTIVE ;
- CASNO : 7446-14-2,Sulfuric acid, lead(2+) salt (1:1),SP,ACTIVE ;
- CASNO : 7758-97-6,Chromic acid (H2CrO4), lead(2+) salt (1:1),SP,ACTIVE ;
- CASNO : 8052-41-3,Stoddard solvent,Not SNUR,ACTIVE ;
- CASNO : 13463-67-7,Titanium oxide (TiO2),Not SNUR,ACTIVE ;

National Toxicology Program (NTP) Report on Carcinogens-Substances listed :

- CASNO : 50-00-0,Formaldehyde,Known ;

Agents classified by International Agency for Research on Cancer(IARC) monographs :

- CASNO : 50-00-0,Formaldehyde,1 ;
- CASNO : 67-63-0,Isopropyl alcohol,3 ;
- CASNO : 100-41-4,Ethylbenzene,2B ;
- CASNO : 108-78-1,Melamine,2B ;
- CASNO : 108-88-3,Toluene,3 ;
- CASNO : 1330-20-7,Xylenes,3 ;
- CASNO : 7446-14-2,Lead sulfate (PbSO4),2A ;
- CASNO : 7758-97-6,Lead(II) tetraoxidochromate,1 ;
- CASNO : 13463-67-7,Titanium dioxide,2B ;

Occupational Safety and Health Act (OSHA) Standard related to carcinogens :

Not applicable

Proposition65 Safe Drinking Water and Toxic Enforcement Act of 1986 :

- CASNO : 13463-67-7,Titanium dioxide,cancer ;
- CASNO : 100-41-4,Ethylbenzene,cancer ;
- CASNO : 50-00-0,Formaldehyde (gas),cancer ;
- CASNO : 108-88-3,Toluene,developmental ;

Chemical Safety Assessment

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

SECTION 16: Other information

Date of preparation :

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Version number :

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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.