

Safety Data Sheet according to Regulation (EC) No 1907/2006 (modified in accordance with Commission Regulation (EU) 2020/878)

Print date: 30/01/2024
Revision date: 30/01/2024
Validity date: 30/01/2024
Version: 2.0

Replaced version: 1.0

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

1.1. Product identifier

Substance name: 2-ethylhexyl 4-(dimethylamino)benzoate
IUPAC name: 2-ethylhexyl 4-(dimethylamino)benzoate
EC number: 244-289-3
CAS number: 21245-02-3

Other means of identification

No specific information.

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

Relevant identified uses

Inks, coatings, adhesives ingredient and cosmetic ingredient.
Formulation: Formulation of inks, coatings and adhesives; Formulation of cosmetic products
Uses at industrial sites: Industrial application of coatings, inks, and adhesives

Uses advised against

There are no known uses of the substance that are specifically advised against.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

Company name: HANGZHOU LINAN TIANHONG BIOTECHNOLOGY CO., LTD.
Company address: No.188, Meiling Road, Qingshan lake strret, Linan district, Hangzhou city, Zhejiang Province, China
Telephone/Telefax/Email: +86-57158605786/admin@tianhongsw.com

1.4. Emergency telephone number

Manufacturer/Supplier: +86-13858113248

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP Regulation)

The substance is self-classified as hazardous according to Regulation (EC) No 1272/2008 (CLP Regulation).

Self-classification:

Repr. 1B, H360: May damage fertility or the unborn child. Route of exposure: oral

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)



Pictograms:

GHS08: health hazard

Signal words: Danger

Hazard statements: H360

Precautionary statements: P201; P260; P280; P308+P313; P405; P501

Full text of H-and P-statements: see section 16.

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2.3. Other hazards

PBT assessment: The substance is not PBT/vPvB (see section 12.5).
Determination of endocrine-disrupting properties: The chemical is not a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605.

Section 3: Composition/information on

ingredients 3.1. Substances

Substance name: 2-ethylhexyl 4-(dimethylamino)benzoate
EC number: 244-289-3
CAS number: 21245-02-3
Purity: $\geq 99\%$

3.2. Mixtures

Not relevant.

Section 4: First aid measures

4.1. Description of first aid measures

Get medical attention if any discomfort continues.

Following inhalation

Move affected person to fresh air at once. If breathing stops, provide artificial respiration.
Get medical attention if any discomfort continues.

Following skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Following eye contact

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes.
Get medical attention if any discomfort continues.

Following ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

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

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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

No specific recommendations.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable: Extinguish with foam, carbon dioxide or dry powder.
Unsuitable: No specific information.

5.2. Special hazards arising from the substance or mixture

Specific hazards: No unusual fire or explosion hazards noted.
Hazardous combustion products: carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen.

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5.3. Advice for firefighters

Protective actions during firefighting: No specific firefighting precautions known.
Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear protective clothing as described in section 8.
For emergency responders: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.

6.2. Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and materials for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers.
Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid water contacting spilled material or leaking containers.

6.4. Reference to other sections

See sections 8 and 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes.
Avoid inhalation of vapours. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure.

Protective measure

Provide adequate ventilation. Use approved respirator if air contamination is above an acceptable level.

Measures to prevent fire

No specific information.

Measures to prevent aerosol and dust generation

No specific information.

Measures to protect the environment

Avoid spilling.

Advice on general occupational hygiene

Advice on general occupational hygiene: Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store locked up. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Requirements for storage rooms and vessels

Keep storage place cool and dry. Store at ambient temperature.

Packaging materials

No specific information.

Materials to avoid

Avoid contact with water or humidity. Keep away from food, drink and animal feeding stuffs.

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7.3. Specific end use(s)

Recommendations

The identified uses for the substance are detailed in section 1.2.

Industry-specific and sectoral guidelines

No specific information.

Section 8: Exposure controls/personal

protection 8.1. Control parameters

Substance name: 2-ethylhexyl 4-(dimethylamino)benzoate

EC number: 244-289-3

CAS number: 21245-02-3

Hazard conclusion for worker

DNEL, inhalation, systemic effects, long-term: 0.5 mg/m³

DNEL, inhalation, systemic effects, acute: No hazard identified

DNEL, inhalation, local effects, long-term: No hazard identified

DNEL, inhalation, local effects, acute: No hazard identified

DNEL, dermal, systemic effects, long-term: 6.7 mg/kg bw/day

DNEL, dermal, systemic effects, acute: No hazard identified

DNEL, dermal, local effects, long-term: No hazard identified

DNEL, dermal, local effects, acute: No hazard identified

DNEL, eyes, local effects: No hazard identified

Hazard conclusion for the general population

Hazard unknown but no further hazard information necessary as no exposure expected.

Hazard assessment conclusion for the environment

PNEC, freshwater: 0 mg/L

PNEC, marine water: 0 mg/L

PNEC, intermittent release: 0 mg/L

PNEC, sediment (freshwater): 0.042 mg/kg sediment dw

PNEC, sediment (marine water): 0.004 mg/kg sediment dw

PNEC, STP: 100 mg/L

PNEC, soil: 0.008 mg/kg soil dw

PNEC, air: No hazard identified

8.2. Exposure controls

Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Personal protection measures - Personal protective equipment Hygiene measures

Wash hands, forearms and face thoroughly after handling this substance or mixtures containing substance, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Do not eat, drink or smoke while working. Keep away from foodstuffs, beverages and food. During synthesis, formulation or application, follow good industrial hygiene practice. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Eye/Face protection

Personal protective equipment for eye and face protection should comply with European Standard EN166.

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Provide eyewash station and safety shower.

Skin protection

Protective working clothes, closed footwear. The skin protection equipment should be cleaned thoroughly after each use.

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Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. It is recommended that gloves are made of the following material: Nitrile rubber. The selected gloves should have a breakthrough time of at least 4 hours. Protective gloves should have a minimum thickness of 0.4

mm. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application.

Other skin protection measures

Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Particulate filter, type P2.

Thermal hazards

No specific information.

Exposure controls

No specific information.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
- Physical state:	liquid at 20°C and 101.3kPa
- Colour:	pale yellow
- Granulometry:	Not determined since the substance is marketed or used in a non-solid or granular form.
Odour:	No specific information.
Odour threshold:	No specific information.
pH-value:	No specific information.
Melting point/freezing point:	<-25°C at 101325 Pa (OECD 102/EU Method A.1)
Initial boiling point/boiling range:	>250°C at 101325 Pa (OECD 103/EU Method A.2)
Flash point:	190°C at 1015 mBar (EU Method A.9)
Evaporation rate:	No specific information.
Flammability (liquid):	It is considered justified to omit the testing for liquids as the testing is not technically feasible.
Upper/lower flammability or explosive limits:	No specific information.
Vapour pressure:	5 x 10 ⁻⁴ Pa at 25°C (OECD 104/EU Method A.4)
Vapour density:	No specific information.
Relative density:	0.994 g/cm ³ at 20°C (OECD 109)
Water solubility:	0.1 mg/L at 20°C (OECD 105/EU Method A.6)
Partition coefficient n-octanol/water:	log Pow>6.2 (OECD 117/EU Method A.8)
Auto-ignition temperature:	>400°C at 1015 mBar (EU Method A.15)
Decomposition temperature:	No specific information.
Viscosity:	No specific information.
Explosive properties:	Non explosive, since the calculation of oxygen balance indicates no explosive properties.
Oxidising properties:	Non oxidising since there are no chemical groups present in the molecule which are associated with oxidising properties.
Surface tension:	Not determined since water solubility of the substance is below 1 mg/L at 20°C.

9.2. Other information

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9.2.1. Other information on the physical hazard classes

No specific information.

9.2.2. Other safety characteristics

No specific information.

Section 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.
Stable under recommended storage and handling conditions (see section 7).

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.
Hazardous polymerization: will not occur.

10.4. Conditions to avoid

Avoid sources of ignition, such as heat, sparks and open flame. Avoid static discharges.

10.5. Incompatible materials

Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

No decomposition expected under normal storage conditions.
Hazardous decomposition products: carbon oxides and nitrogen oxides.

Section 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

LD50(oral, rat): 14900 mg/kg bw (OECD 401)

Inhalation: No specific information.

Dermal: No specific information.

Skin corrosion/irritation

Not irritating (OECD 439/EU Method B.46)

Not corrosive (OECD 431)

Serious eye damage/irritation

Not irritating (OECD 437/EU Method B.47); Not irritating (OECD 405)

Respiratory or skin sensitisation

Skin sensitisation: Not sensitizing (guinea pig, OECD 406)

Germ cell mutagenicity

In vitro gene mutation study in bacteria: Negative (OECD 471/EU method B.13/14)

Chromosome aberration study in mammalian cells (in vitro cytogenicity/chromosome aberration study in mammalian cells): Negative (OECD 473)

In vivo mammalian somatic cell study, cytogenicity/erythrocyte micronucleus: Negative (mouse, OECD 474)

Repeated toxicity

NOEL(oral, rat): 100 mg/kg bw/day (28 days, OECD 407)

Carcinogenicity

No specific information.

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Reproductive toxicity

Reproductive screening: NOAEL=50 mg/kg bw (rat, OECD 421)

Adverse effects on male fertility following the administration of 175 or 600 mg/kg/day, No adverse effects following administration of 50 mg/kg/day. No adverse effects noted for females administered 600 or 175 mg/kg/day.

Developmental screening: NOAEL=50 mg/kg bw/day (sub-acute; rat; OECD 414)

Under the conditions of this study, the no observed effect level (NOEL) for developmental toxicity was 40 mg/kg. The low observed effect level (LOEL) for developmental toxicity was 200 mg/kg, based on lighter fetuses and retarded skeletal ossification. No teratogenic effect was found.

In accordance with the criteria for classification as defined in Annex I, Regulation (EC) No 1272/2008, the substance requires classification with respect to reproductive toxicity as Category 1B (H360; May damage fertility or the unborn child).

STOT-single exposure

No specific information.

STOT-repeated exposure

No specific information.

Aspiration hazard

No specific information.

Symptoms and effects (delayed and chronic) with information about ways of exposure also: information about toxicokinetics, metabolism and distribution

Toxicokinetics, metabolism and distribution

Dermal absorption study in vitro / ex vivo: No effects

No experimental toxicokinetic study is available on the substance. Based on the physical-chemical properties and QSAR predictions, the absorption of the substance is expected to be high by oral route and inhalation, but low by dermal route. A good distribution and excretion of the substance are expected.

Information on likely routes of exposure

Primary routes of exposure: Inhalation, eye contact, skin contact/absorption.

Relatively unlikely route of exposure: ingestion.

Immediate, delayed and chronic effects from short and long term exposure

Short-term exposure – Potential immediate and delayed effects: No information available.

Long-term exposure – Potential immediate and delayed effects: No information available.

Potential chronic health effects: No information available.

11.2 Information on other hazards

Endocrine disrupting properties

The substance does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

Section 12: Ecotoxicological information

12.1. Toxicity

Acute toxicity to fish

LC50(96h)>0.1 mg/L (REACH Guidance on QSARs R.6 calculation)

Acute toxicity to aquatic invertebrates

EC50(48h)>0.031 mg/L; NOEC(48h): 0.031 mg/L (OECD 202/EU Method C.2)

Acute toxicity to aquatic plants

EC50(72h)>0.015 mg/L; NOEC(72h): 0.015 mg/L (OECD 201/EU Method C.3)

Chronic toxicity to fish

No specific information.

Chronic toxicity to aquatic invertebrates

No specific information.

Chronic toxicity to aquatic plants

No specific information.

Toxicity to aquatic micro-organisms

NOEC(3h): 1000 mg/L; EC50(3h)>1000 mg/L (activated sludge, OECD 209)

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Sediment toxicity

No specific information.

Terrestrial toxicity

No specific information.

12.2. Persistence and degradability

Biodegradation

Ready biodegradability, 85% degradation after 28 days (OECD 301 B/EU Method C.4-C)

12.3. Bioaccumulative potential

Bioaccumulation

Aquatic bioaccumulation: Not determined since the substance is of no immediate concern to the environment and its potential to bioaccumulate is considered to be low as it is readily biodegradable.
Terrestrial bioaccumulation: No specific information.

Partition coefficient n-octanol/water

logPow>6.2 (OECD 117 / EU Method A.8)

Bioconcentration factor (BCF)

No specific information.

12.4. Mobility in soil

Surface tension

Not determined since water solubility of the substance is below 1 mg/L at 20°C.

Adsorption/Desorption

log Koc: 4.4 at 25°C; Koc: 28000 at 25°C (OECD 121/EU Method C.19)

12.5. Results of PBT and vPvB assessment

The substance does not fulfill the PBT/vPvB criteria according to Annex XIII of Regulation (EC) No 1907/2006 (REACH Regulation).

12.6. Endocrine disrupting properties

The chemical is not a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

The substance is not listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

Section 13: Disposal considerations

13.1. Waste treatment methods

When handling waste, the safety precautions applying to handling of the product should be considered. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor.

Treatment of polluted packaging

Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local/regional/national/international regulations.

Waste treatment-relevant information

Residual chemical should be disposed by incineration or by other modes or disposal in compliance with local/regional/national/international regulations.

Relevant EU or other assignments

No specific information.

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Section 14: Transport information

14.1. UN number

Not applicable.

14.2. UN proper shipping name

ADN(R)/RID

Not applicable.

IMDG-Code/ICAO-TI/IATA-DGR

Not applicable.

14.3. Transport hazard class(es)

Not applicable, since the substance is not classified as dangerous goods.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Indication of environmental hazardous substances

ADR/RID/IMDG-Code/ICAO-TI/IATA-DGR: ☐ yes / ☒ no

Marine Pollutant: ☐ yes / ☒ no

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information

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

EU Regulations

Restrictions according to Regulation (EC) No 1907/2006 (REACH), Annex

XVII Not listed.

Restrictions according to Regulation (EC) 1907/2006 (REACH), Title

VIII Not listed.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC – Candidate

list Not listed.

2012/18/EU (Seveso III): dangerous substance/hazard

categories Not listed.

National regulations (Germany)

Water hazard class

WGK 2 (obviously hazardous to water), No.: 2339

Technical instruction air (TA-Luft)

Chapter 5.2.5 Organic substances

Organic substances in the exhaust gas, with the exception of dusty organic substances, must not exceed a mass flow of 0.50 kg/h or a mass concentration of 50 mg/m³, each stated as total carbon. In the exhaust gas from thermal or catalytic post-combustion devices, emissions of organic substances may not exceed 20 mg/m³, expressed as total carbon; at the same time, carbon monoxide emissions must not exceed a mass concentration of 0.10 g/m³.

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Other chemical regulations

Australia – AICS

The substance is listed on the inventory.

Canada – DSL

The substance is listed on the inventory.

China – IECSC

The substance is listed on the inventory.

Korea - KECL

The substance is listed on the inventory.

Japan – ENCS

The substance is listed on the inventory.

Philippines – PICCS

The substance is listed on the inventory.

New Zealand – NZIoC

The substance is listed on the inventory. Approval status: Does not have an individual approval but may be used under an appropriate group standard.

Taiwan – TCSI

The substance is listed on the inventory.

USA – TSCA (active inventory)

The substance is listed on the inventory.

15.2. Chemical safety assessment

A Chemical Safety Report (CSA) has been carried out for the substance by the supplier.

Section 16: Other information

Changes towards the last version

Full revision according to Commission Regulation (EU) 2020/878.

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
B	Bio-accumulative
BCF	Bioconcentration factor
bw	Bodyweight
°C	Degree Celsius
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
CSA	Chemical Safety Assessment
DNEL	Derived No Effect Level
DSL	Domestic Substances List (Canada)
EC	European Community
EC50	Half maximal Effective Concentration
ENCS	Existing and New Chemical Substances (Japan)
EU	European Union
g	Gram
h	Hour
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization (approved and published Technical Instructions for the Safe Transport of Dangerous Goods by Air)

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IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
IMDG	International Maritime Dangerous Goods
KECL	Korea Existing Chemicals Inventory
kg	Kilogram
Koc	Soil Organic Carbon-Water Partitioning Coefficient
kPa	Kilopascal
L	Litre
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
Log Pow	n-Octanol/Water Partition Coefficient
mg	Milligram
mL	Millilitre
N	Newton
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NZIoC	New Zealand inventory of Chemicals
P	Persistent
Pa	Pascal
PBT	Persistent, Bio-accumulative and Toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No Effect Concentration
Pow	Octanol-Water Partition Coefficient
REACH	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STOT	Specific target organ toxicity
SVHC	Substance of very high concern
T	Toxic
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act (USA)
vPvB	Very Persistent and Very Bio-accumulative
VwVwS	Verwaltungsvorschrift wassergefährdende Stoffe (German Administrative Regulation on the classification of Substances Hazardous to Water)

Reference and sources

Sources for data under sections 9, 11 and 12: Letter of Access.

Classification for substances and used evaluation method according to article 9 of Regulation (EC) No 1272/2008

Not relevant.

Full text of hazard warnings and/or precautionary statements regarding section 2 to 15

Hazard statements

H360: May damage fertility or the unborn child <state specific effect if known > <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Precautionary statements

P201: Obtain special instructions before use.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

P405: Store locked up.

P501: Dispose of contents/container toin accordance with local/regional/national /international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal

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requirements apply to contents, container or both.

Training for employees

Use this substance and/or products containing substance with care. Always read the label and product information before use. Ensure you have received adequate training and/or instructions before use.

Other information

Suggested uses: used in coating, inks and adhesives, as well as in cosmetic products.

Declaration to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Users should make their own investigation to determine suitability of the information or products for their own particular purposes. The Safety Data Sheet (SDS) was prepared and is to be used only for the substance as such. If the substance is used as a component in another product, information in this SDS may not be applicable.

END OF SAFETY DATA SHEET
