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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Escalol™ 577

UV filters

™ Trademark, Ashland or its subsidiaries, registered in

various countries

Substance name sulisobenzone

Substance No.

EC-No. 223-772-2

CAS-No. 4065-45-6

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

Recommended use : UV absorber

Personal care Home care

Cleaning solutions. Water-borne coatings

Agrochemicals

sheet

Ashland P.O. Box 2219

Columbus, OH 43216

Columbus, Ort 43210

United States of America (USA)

1-614-790-3333

Emergency telephone number

1-800-ASHLAND (1-800-274-5263)

Regulatory information

1-614-790-3333 (customer service)

Product Information

1-614-790-3333

EHSProductSafety@ashland.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Combustible Dust :

Skin irritation : Category 2

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Eye irritation : Category 2A

GHS label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

Causes skin irritation.

Causes serious eye irritation.

Precautionary Statements : Prevention:

Wash skin thoroughly after handling.

Wear protective gloves/ eye protection/ face protection. Keep dust/air mixtures away from ignition sources.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : organic

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
BENZOPHENONE-4	4065-45-6	Comb Dust	100.00

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Skin Irrit. 2; H315	
Eye Irrit. 2A; H319	

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water,

Wash contaminated clothing before re-use.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

If swallowed : IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

unwell.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

The most important known symptoms and effects are

described in the labelling (see Section 2.2) and/or Section 11.

Causes skin irritation.

Causes serious eye irritation.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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Water spray Foam

Unsuitable extinguishing

media

: High volume water jet

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Sulphur oxides

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

Material can create slippery conditions.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Avoid dust formation.

Take measures to prevent the build up of electrostatic charge.

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Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling

For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: "Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing and Handling of Combustible Particulate Solids".

Avoid dust formation.

Do not breathe vapours/dust.

Do not smoke.

Ensure all equipment is electrically grounded and bonded before beginning transfer operations.

The material can accumulate static charge and can therefore

cause electrical ignition of flammable atmospheres.

Container hazardous when empty. Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in

order to avoid any potential for dust explosion hazards.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

No smoking.

Further information on storage stability

: Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Components	CAS-No.
BENZOPHENONE-4	4065-45-6

Engineering measures : Provide sufficient mechanical (general and/or local exhaust)

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ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Respiratory protection In the case of vapour formation use a respirator with an

approved filter within the capabilities of the respirator/filter

combination.

Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear

a positive-pressure supplied-air respirator.

Hand protection

Material butyl-rubber : 480 min Break through time Glove thickness > 0.5 mm

Remarks The exact break through time can be obtained from the

> protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Eye protection Safety glasses

Skin and body protection Wear resistant gloves (consult your safety equipment

supplier).

Wear as appropriate:

Safety shoes

Dust impervious protective suit

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures Avoid breathing dust.

Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

solid

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Physical state : solid

Colour : white, yellow

Odour : slight, characteristic

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : $> 248 \, ^{\circ}\text{F} \, / > 120 \, ^{\circ}\text{C}$

Boiling point/boiling range : not determined

Flash point : 100 °C(Estimated)

Evaporation rate : Not applicable

Flammability (solid, gas) : not determined

Upper explosion limit : Upper explosion limit

not determined

Lower explosion limit : Lower explosion limit

not determined

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density : 0.8 g/ml (25 °C)

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: not determined

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : Not applicable

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Viscosity, kinematic : Not applicable

Oxidizing properties : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Dust may form explosive mixture in air.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

BENZOPHENONE-4:

Acute oral toxicity : LD50 (Rat): 3,530 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

BENZOPHENONE-4:

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Species: Rabbit Result: Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Product dust may be irritating to eyes, skin and respiratory system., Causes serious eye irritation.

Components:

BENZOPHENONE-4: Species: Rabbit

Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components:

BENZOPHENONE-4: Test Type: Buehler Test Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

BENZOPHENONE-4:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test species: Chinese hamster ovary cells

Result: negative

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment Short-term (acute) aquatic

hazard

: Acute aquatic toxicity Category 3; Harmful to aquatic life.

Long-term (chronic) aquatic

hazard

: Chronic aquatic toxicity Category 3; Harmful to aquatic life

with long lasting effects.

Components:

BENZOPHENONE-4:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 25 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Daphnia magna (Water flea)): 50 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): > 200 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

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Persistence and degradability

Components:

BENZOPHENONE-4:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 17.95 % Exposure time: 28 d

Method: OECD Test Guideline 301D

No data available

Bioaccumulative potential

Components:

BENZOPHENONE-4:

Partition coefficient: n-

octanol/water

: log Pow: 0.3

No data available

Mobility in soil

Components:

No data available

Other adverse effects

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life

with long lasting effects.

Components:

BENZOPHENONE-4:

Results of PBT and vPvB

assessment

: This substance is not considered to be persistent,

bioaccumulating and toxic (PBT).

: This substance is not considered to be very persistent and

very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Dispose of in accordance with all applicable local, state and

federal regulations.

The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

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Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods	

CFR_RAIL C

51 1_1\7\11 _ _0		
	Not dangerous goods	

U.S. DOT - INLAND WATERWAYS

Not dangerous goods	

TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods	

TDG_INWT_C

Not dangerous goods	

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods	

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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

THE ENTRY COUNTY OF THE PROPERTY OF THE SERVICE OF
Not dangerous goods

MX_DG

- 4		
	Not dangerous goods	

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no	Ī

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ. SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Combustible Dust

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

BENZOPHENONE-4 4065-45-6

New Jersey Right To Know

BENZOPHENONE-4 4065-45-6

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California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On or in compliance with the active portion of the TSCA

inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA) - On or in compliance with the active portion of the TSCA inventory

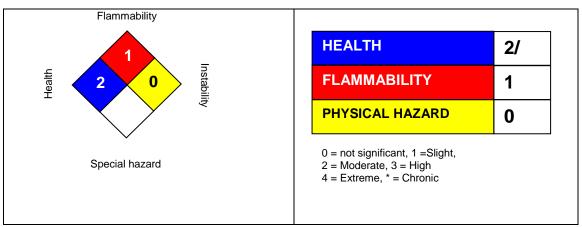
SECTION 16. OTHER INFORMATION

Further information

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NFPA:	HMIS III:	

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NFPA Flammable and Combustible Liquids Classification Not applicable

Full text of H-Statements

H315 Causes skin irritation. H319 Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -

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Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative