

Safety Data Sheet

according to 1907/2006/EC, Article 31, (Commission Regulation (EU) 2020/878)

Trade name: **HotFlux®**

Version: 14

Revision: 2023.03.25

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name **HotFlux®**
CAS number **82654-98-6**

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

Recommended Use Cosmetic
Used for the formulation of cosmetics
Uses advised against Refer to Exposure Scenarios for covered SU, PROC, PC, AC and ERC.
Product category Not determined
Process category Not determined

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier
CORUM INC.
6FL., No.360, Ruei Guang Rd.,
Neihu Dist., Taipei 114729, Taiwan
Further information obtainable from
marketing.support@corum.com.tw

1.4 Emergency telephone number

Company phone number CORUM Tel. 886-2-8751-6060
Fax. 886-2-8751-6363

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

Label according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07
Signal word
Warning
Hazard statements

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H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

Not applicable

The substance does not have endocrine disrupting properties.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Composition/information on ingredients

Name	Product Identifier	Classification	SCLs, M-Factors	Concentration (% w/w)
Phenol, 4-(butoxymethyl)-2-methoxy	(CAS No.) 82654-98-6 (EC No.) 444-010-7	Skin Sens. 1B H317	-	100%

3.2 Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

Involve doctor immediately. Immediately remove any clothing soiled by the product.

After inhalation

If breathing, move person into fresh air. If not breathing, give artificial respiration. Supply fresh air and be sure to call for a doctor.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

After eye contact

Immediately flush eyes with copious amounts of water for at least 15 minutes. Rinse opened eyes for several minutes under running water. If symptoms persist, consult a doctor.

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After swallowing

Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Sensitization possible through skin contact

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians

No further relevant information available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

CO₂, powder or water spray

Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media

No further relevant information available

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Smoke

5.3 Advice for firefighters

Wear protective clothing and glasses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

Keep away from ignition sources.

Avoid contact with skin, eyes and clothes.

Wear protective clothing.

Wear chemical resistant protective gloves when handling spillage.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Keep in suitable, closed containers for disposal.

Dispose contaminated material as waste according to item 13.

Use warm water to clean the affected area carefully.

6.4 Reference to other sections

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See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precaution for safe handling

Advice on safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Avoid contact with skin and eyes.
Put on appropriate personal protective equipment.
Do not ingest.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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.
Store in a cool place.

Incompatible materials

Store away from metals. It will change color and increase viscosity if contacting metals.

Storage class (VbF)

No

Further information about storage conditions

Protect from contacting with air, light, heat and moisture.
Avoid container damage while handling and storing.
Keep container tightly sealed.
Do not expose to extreme temperature (storage in a cool and dry place at room temperature: 6-25°C).

7.3 Specific end use(s)

Refer to Exposure Scenarios.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

Not required

DNEL

Not determined

PNEC

Not determined

Additional information

The valid lists during this review were used as a basis.

8.2 Exposure controls

Personal protective equipment

Respiration protection

Respiratory protection is not required. Where respiratory protection is desired, use multi-purpose combination (US) or

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type ABEK (EN 14387) respiratory cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hands protection

Protective gloves



Material of gloves

Rubber gloves
Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material Not tested with the material

Breakthrough time >8 hours

Eye protection

Face protection



General protective measure

Tightly sealed goggles

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Wash contaminated clothing prior to re-use.
All skin and mucous membranes with potential exposure have to be protected with appropriate PPE.

General hygiene measure

The usual precautionary measures are to be adhered to when handling chemicals.

Environmental exposure controls

No further relevant information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Fluid
Appearance	Fluid
Color	Colorless to light yellow
Odor	Typical
Odor threshold	Not determined.

Property

pH value (5%)	Not determined
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Melting point/Melting range	<-40 °C (OECD 102)
Boiling point/Boiling range	255 °C (OECD 103)
Flash point	114 °C (closed cup)
Flammability (solid, gaseous)	Not applicable
Ignition temperature	Not determined
Decomposition temperature	Not determined
Self-igniting	300 °C Test method EU.A15
Danger of explosion	Product does not present an explosion hazard.
Explosion limit	
Lower	Not determined
Upper	Not determined
Oxidizing properties	Not determined
Explosive properties	Not determined
Vapor pressure	<20 hPa (OECD 104, static method)
Vapor density	1,06 g/cm ³ (OECD 109, pycnometer)
Relative density	Not determined
Evaporation rate	Not determined
Solubility	1,79 g/l (OECD 105, flask method)
Partition coefficient (n-octanol/water at 25 °C)	2,4 log POW (OECD 117, HPLC, isocratic)
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined

9.2 Other information

Surface tension	Test method OECD 115, plate method 45,58 mN/m at 20°C and 1000 mg/l
Dissociation constant	Not determined
Granulometry	Not applicable

Information with regard to physical hazard classes

Explosives	Not determined
Flammable Gases and Chemically Unstable Gases	Not determined
Flammable Aerosols	Not determined
Oxidising Gases	Not determined
Gases Under Pressure	Not determined
Flammable Liquids	Not determined
Flammable Solids	Not determined
Self-reactive Substances and Mixtures	Not determined
Pyrophoric Liquids	Not determined
Pyrophoric Solids	Not determined
Self-heating Substances and Mixtures	Not determined
Substances and Mixtures which in contact with water emit flammable gases	Not determined
Oxidising Liquids	Not determined
Oxidising Solids	Not determined
Organic Peroxides	Not determined
Substances and Mixtures corrosive to Metals	Not determined
Desensitized Explosives	Not determined

SECTION 10: STABILITY AND REACTIVITY

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10.1 Reactivity

The product is stable and doesn't react under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions

Thermal decomposition/conditions to be avoided

Stable under normal temperatures and pressures

10.3 Possibility of hazardous reactions

No dangerous reactions known

Polymerisation not reported

10.4 Conditions to avoid

Avoid contact with incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents

Strong acids

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification

	Effect dose/concentration	Value	Species
Substance 82654-98-6 Phenol, 4-(butoxymethyl)-2-methoxy			
Acute oral toxicity	LD50	>2000 mg/kg bw	rat

Primary Irritant effect

Skin corrosion/irritation

Test: OECD Guideline 404 (Acute Dermal Irritation /Corrosion):
rabbit, coverage: semiocclusive (shaved)

Serious eye damage/irritation

HET-CAM Test (in vitro): Hen's eggs (white Leghorn), vehicle:
mazola corn oil
Causes serious eye irritation.

Respiratory tract

Not determined

Respiratory/skin sensitization

Based on results of testing:
Test: OECD Guideline 406 (Skin Sensitisation), guinea pig
(Himalayan) female, Guinea pig maximisation test
Induction: intradermal
Challenge: epicutaneous, occlusive
May cause an allergic skin reaction.

Additional toxicological information

Toxicokinetics, metabolism

Not determined

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and distribution

Repeated dose toxicity Not determined

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ Cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Not applicable

11.2 Information on other hazards

Endocrine disrupting properties Substance is not listed

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity

	Effect dose/concentration	Value	Species	Test
Substance 82654-98-6 Phenol, 4-(butoxymethyl)-2-methoxy				
Acute toxicity	EC50 (72hr)	27 mg/l	Pseudokirchneriella subcapitata	OECD 201 Algae, growth inhibition test
		67,3 mg/l	Pseudokirchneriella subcapitata	OECD 201 growth rate
Acute toxicity	NOEC (72hr)	<10 mg/l	Algae	OECD 201 Algae, growth inhibition test
Other	EC50 (48 hr)	21,43 mg/l	Daphnia	OECD 202 Daphnia sp acute immobilisation test

12.2 Persistence and degradability

Readily biodegradable

OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test), activated sludge
60,75 % Degradation of test substance after 28 d (O₂ consumption)

12.3 Bioaccumulative potential

Secondary poisoning: Due to the logPow < 3, significant accumulation in organisms is not expected. Therefore, secondary poisoning has no concern for this substance.

12.4 Mobility in soil

It is expected to degrade rapidly.

12.5 Results of PBT and vPvB assessment

Not applicable

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12.6 Endocrine disrupting properties

Substance is not listed

12.7 Other adverse effects

No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Dispose according to local regulations.
Must not be disposed together with household garbage.
Do not allow product to reach sewage system.

13.2 Uncleaning packaging

Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID

Not applicable

ADN

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.2 UN proper shipping name

ADR/RID

Not applicable

ADN

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.3 Transport hazard class(es)

ADR/RID

Not applicable

ADN

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.4 Packing group

ADR/RID

Not applicable

ADN

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.5 Environmental hazard

Marine pollutant

No

14.6 Special precautions for user

Special precaution for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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Not applicable

14.8 ICAO/IATA – DGR

Not regulated as dangerous good

SECTION 15: REGULATORY INFORMATION

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

Inventory - United States - Toxic Substances Control Act (TSCA)

Substance is listed

Canada Domestic Substances List (DSL)

Substance is listed

Canada Non-Domestic Substances List (NDSL)

Substance is not listed

European Inventory of Existing Chemical Substances (EINECS)

Substance is not listed

Japan Existing and New Chemical Substances (ENCS)

Substance is listed

China Inventory of Existing Chemical Substance (IECSC)

Substance is listed

Korean Existing and Evaluated Chemical Substances (KECL)

Substance is not listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

Substance is listed

Australian Inventory of Chemical Substances (AICS)

Substance is not listed

New Zealand Inventory of Chemicals

Substance is listed

TCSI - Taiwan Chemical Substance Inventory

Substance is listed

OECD - List of High Production Volume Chemicals

Substance is not listed

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

Substance is not listed

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed

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Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed

National regulations

Other regulations, limitations and prohibitive regulations

Not determined

Substances of very high concern (SVHC) according to REACH, Article 59(10)

Not determined

15.2 Chemical safety assessment

This substance has been registered for a tonnage band <10 tons and a Chemical Safety Assessment is not mandatory according to REACH Regulation.

DNELs and PNECs can't be calculated with the information requirements of Annex VII.

Following ECHA Guidance R.7 part E, Risk Management Measures are described for substances classified for certain Hazard Classes (Table E.3-1). These RMM are included in this Safety Data Sheet in a format of Exposure Scenario.

This Exposure Scenario is provided on a voluntary basis.

A Chemical Safety Assessment has been carried out.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms

GHS: Globally Harmonized System of Classification and Labeling Chemicals

CAS: Chemical Abstract Service (division of the American Chemical Society)

VbF: Ordinance on the storage of combustible liquids, Austria

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substances of Very High Concern

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

STOT: Specific Target Organ Toxicity

ADR: Agreement on Dangerous Goods by Road

RID: Regulations concerning the Intl Transport of Dangerous Goods by Rail

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

Sources

Data sheet based on the information provided by Manufacturer

Chemical Safety Report as submitted to ECHA

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ANNEX: EXPOSURE SCENARIO 1

Short title of the exposure scenario

This substance has been registered < 10 tons/year and the CSA is not mandatory.

The exposure scenarios attached are qualitative assessment and are provided on a voluntary basis.

Empty part of SDS: see next Exposure Scenarios

Use of substance in formulation of cosmetic products (industrial)

Use of substance in formulation of cosmetic products (professional)

Use of substance in cosmetic products (consumer)

ANNEX: EXPOSURE SCENARIO 2**Short title of the exposure scenario**

Use of substance in formulation of cosmetic products (industrial)

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

Product category PC39 Cosmetics, personal care products

Process category

PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC3 Use in closed batch process (synthesis or formulation)

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

PROC19 Hand-mixing with intimate contact and only PPE available

Environmental release category

ERC2 Formulation of preparations

ERC5 Industrial use resulting in inclusion into or onto a matrix

Description of the activities / processes covered in the Exposure Scenario

Formulation, packing and repacking of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities.

Conditions of use

Duration and frequency 5 workdays/week.

Worker 8hrs (full working shift).

Environment Indoor use

Physical parameters

Physical state Liquid

Concentration of the substance in the mixture up to 100%

Used amount per time or activity Not determined

Other operational conditions**Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin and mucous membranes.

Avoid long-term or repeated skin contact.

Risk management measures**Worker protection****Organizational protective measures**

Deploy only trained chemical workers.

Avoid frequent and direct contact with substance.

Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not work with the product.

Minimization of manual phases.

Ensure that the working area is organized, well lit and ventilated, with enough space to handle spilled product.

Washing facilities / Water for cleaning eyes and skin should be available.

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Supervision in place to check that the RMMs in place are being used correctly and OCs followed.
Recording of any 'near miss' situations.

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Clean tools immediately after use.

Personal protective measures

Detailed measures on hand protection according to Safety Data Sheet, section 8.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

Tightly sealed goggles

Face protection

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes [PPE20]

Environmental protection measures

Air Not determined

Water Do not allow to reach ground water, water bodies or sewage system.

Soil Not determined

Disposal measures

Disposal must be made according to official regulations
Ensure that waste is collected and contained.
Waste should be treated as hazardous waste.

Waste type

Partially emptied and uncleaned packaging

Liquid product residues

Aqueous solution

Exposure estimation Not applicable

Guidance for downstream users No further relevant information available.

ANNEX: EXPOSURE SCENARIO 3**Short title of the exposure scenario**

Use of substance in formulation of cosmetic products (professional)

Sector of Use SU22 Professional uses

Product category PC39 Cosmetics, personal care products

Process category

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC19 Hand-mixing with intimate contact and only PPE available

Environmental release category

ERC8a Wide dispersive indoor use of processing aids in open systems

Description of the activities / processes covered in the Exposure Scenario

The professional use of the substance in professional equipment including maintenance and related material transfers.

Conditions of use According to directions for use.

Worker 8hrs (full working shift).

Environment Not determined

Physical parameters

Physical state Liquid

Concentration of the substance in the mixture Up to 1%

Used amount per time or activity Not determined

Other operational conditions**Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin and mucous membranes.

Avoid long-term or repeated skin contact.

Risk management measures**Worker protection****Organizational protective measures**

Deploy only trained chemical workers.

Avoid frequent and direct contact with substance.

Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not work with the product.

Personal protective measures

Detailed measures on personal protection according to Safety Data Sheet, section 8.

Measures for consumer protection

Provide instructions for use.

Observe consumer information and advice on safe use.

Disposal measures

Disposal procedures Dispose of waste according to local regulations

Waste type

Partially emptied and uncleaned packaging

Uncleaned packaging

Exposure estimation Not applicable

Guidance for downstream users No further relevant information available.

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ANNEX: EXPOSURE SCENARIO 4

Short title of the exposure scenario Use in personal care products

Sector of Use SU21 Consumer uses: Private households / general public / consumers

Product category PC39 Cosmetics, personal care products

Environmental release category

ERC8a Wide dispersive indoor use of processing aids in open systems

Description of the activities / processes covered in the Exposure Scenario

Covers consumer use of cosmetics products containing the substance.

Conditions of use According to directions for use.

Consumer Covers typical frequency and duration of use only, unless otherwise stated.

Physical parameters

Physical state Liquid

Concentration of the substance in the mixture Up to 1%

Other operational conditions

Other operational conditions affecting consumer exposure No special measures required.

Other operational conditions affecting consumer exposure during the use of the product

The consumer has to be advised of warnings regarding overdosage in the instructions for use.

Risk management measures

Measures for consumer protection

Provide instructions for use.

Observe consumer information and advice on safe use.

Exposure estimation Not applicable