according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

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

1.1 Product identifier

Trade name : Phenol, Borvida B™ Phenol, Borvida C™ Phenol

REACH Registration Number : 01-2119471329-32-0006, 01-2119471329-32-XXXX

Substance name : phenol

EC-No. : 203-632-7

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

Use of the : Raw material in chemical industry, Manufacture, Formulation, Substance/Mixture : Distribution, Intermediate, Use in rubber production and

Distribution, Intermediate, Use in rubber production and processing, Use in polymer production, Use in polymer processing, Use in rubber production and processing, Phenolic resin processing (uses of downstream users of phenolic resins), Use as binders and release agents, Use in coatings, Laboratory use, Use in agrochemicals, Leather

treatment products

1.3 Details of the supplier of the safety data sheet

Manufacturer : Borealis Polymers Oy

P.O.Box 330, FI-06101 Porvoo, Finland

Telephone: +358 9 394900

Supplier : Borealis AG

Trabrennstrasse 6-8, 1020 Vienna, Austria

Telephone: +43 1 22400 0

E-mail address : sds@borealisgroup.com

1.4 Emergency telephone number

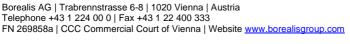
+1 760 476 3962 (3E), Access code: 336296

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Borvida B and Borvida C are trademarks of the Borealis group.





according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Acute toxicity, Category 3 H301: Toxic if swallowed. Acute toxicity, Category 3 H331: Toxic if inhaled.

Acute toxicity, Category 3 H311: Toxic in contact with skin.

Skin corrosion, Sub-category 1B

Germ cell mutagenicity, Category 2

Specific target organ toxicity - repeated

H314: Causes severe skin burns and eye damage.
H341: Suspected of causing genetic defects.
H373: May cause damage to organs through

exposure, Category 2 prolonged or repeated exposure.

Long-term (chronic) aquatic hazard, H411: Toxic to aquatic life with long lasting effects.

Category 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal word : Danger

Hazard statements : H301 + H311 + H331 Toxic if swallowed, in contact with skin

or if inhaled.

H314 Causes severe skin burns and eye damage.H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or

repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P273 Avoid release to the environment.

P262 Do not get in eyes, on skin, or on clothing.P281 Use personal protective equipment as required.

Response:

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.

P309 + P311 IF exposed or if you feel unwell: Call a

POISON CENTER or doctor/ physician.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to a local hazardous

waste disposal facility.

Additional Labelling



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

After contact with skin, wash immediately with plenty of polyethylene glycol (in disposable cloths) and with plenty of water.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : phenol

EC-No. : 203-632-7

Components

Chemical name	CAS-No.	Concentration (%	M-Factor, SCL, ATE
	EC-No.	w/w)	
phenol	108-95-2 203-632-7	> 95 - <= 100	specific concentration limit Skin Corr. 1B; H314 >= 3 % Skin Irrit. 2; H315 1 - < 3 % Eye Irrit. 2; H319 1 - < 3 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Plan first aid action before beginning work with this product.

First aider needs to protect himself.



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Move the victim to fresh air.

Keep at rest.

Remove contaminated clothing and shoes.

If unconscious, place in recovery position and seek medical

advice.

Keep available:

Eye wash bottle with pure water and disposable cloths in polyethylene glycol at the workplace and in vehicles.

In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

If inhaled : Remove from exposure.

Keep warm and at rest and provide fresh air. Give oxygen or artificial respiration if needed. Immediate medical attention is required.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off with polyethylene glycol (in disposable cloths) and

with plenty of water.

Keep on washing until medical assistance is obtained and skin

is not white.

In case of eye contact : Continue rinsing eyes during transport to hospital.

Rinse immediately with plenty of water, also under the eyelids,

for at least 30 minutes.

If swallowed : Rinse mouth.

Drink plenty of water.

Do NOT induce vomiting.

Immediate medical attention is required.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Symptoms of poisoning:

Vomiting Convulsions

Irregular cardiac activity Unconsciousness Breathing difficulties

Death.

Inhalation: Irritation

Shortness of breath Lung oedema

Skin contact: Skin disorders



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Corrosion Dermatitis Necrosis Death.

Ingestion: Severe irritation corrosive effects acute lethal effects

Risks : Symptoms may be delayed.

Toxic if swallowed, in contact with skin or if inhaled.

Causes serious eye damage.

Suspected of causing genetic defects.

May cause damage to organs through prolonged or repeated

exposure.

Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : There is no specific antidote available.

After contact with skin, wash immediately with plenty of polyethylene glycol (in disposable cloths) and with plenty of

water.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

If ingested, irrigate the stomach using activated charcoal in

addition.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder

Carbon dioxide (CO2) Alcohol-resistant foam

Water mist

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

: Flammable.

firefighting

Vapours are heavier than air and may spread along floors.

Vapours may form explosive mixtures with air. Burning produces noxious and toxic fumes.

See chapter 10.



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

5.3 Advice for firefighters

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus and protective suit.

Further information : Keep people away from and upwind of spill/leak.

Keep away from heat and sources of ignition.

Observe the risk of explosion.

Cool containers/tanks with water spray.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.

Keep people away from and upwind of spill/leak.

Do not breathe vapours.

Avoid breathing dust.

Avoid all contact with the product.

Use personal protective equipment.

Ensure adequate ventilation.

Attempt to stop leakage without personal risk.

6.2 Environmental precautions

Should not be released into the environment.

Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Allow to solidify, use mechanical handling equipment.

Shovel into suitable container for disposal.

Large molten masses:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Clean thoroughly.

6.4 Reference to other sections

For personal protection see section 8.

For disposal considerations see section 13.



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle only in a place equipped with local exhaust (or other

appropriate exhaust).

Avoid inhalation of vapour or mist.

Avoid contact with skin, eyes and clothing.

Handle with extreme care. Ensure adequate ventilation.

Advice on protection against

fire and explosion

: Keep away from sources of ignition - No smoking.

Hygiene measures : Avoid contact with skin and eyes. Take off immediately all

contaminated clothing. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Clear up spills immediately and dispose of waste safely. Wash hands before breaks and immediately after handling the product. Use a high fat protective cream after cleaning skin.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed and in a well-ventilated place.

Protect from sunlight.

Further information on storage conditions

: Keep locked up or in an area accessible only to qualified or authorised persons. Take precautionary measures against static discharges. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Ensure that eye flushing systems and safety

showers are located close to the working place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Keep away from incompatible materials.

See chapter 10.

Storage class (TRGS 510) : 6.1A, Combustible substances, toxic

Further information on

storage stability

Recommended storage temperature

15 - 25 °C (solid) 55 - 60 °C (liquid)

Packaging material : Suitable material: Stainless steel

Unsuitable material: Aluminium, Lead, Copper, Copper allovs.

Zinc, Unlined steel, Plastics, Rubber products

7.3 Specific end use(s)

Specific use(s) : Reserved for industrial and professional use.



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
phenol	108-95-2	TWA	2 ppm 8 mg/m3	2009/161/EU
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	4 ppm 16 mg/m3	2009/161/EU
Further information	Identifies the possibility of significant uptake through the skin, Indicative			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
phenol	Workers	Inhalation	Long-term systemic effects	8 mg/m3
			Acute local effects	16 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,23 mg/kg bw/d
	Consumers	Inhalation	Long-term systemic effects	0,452 mg/m3
	Consumer use	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumer use	Oral	Long-term systemic effects	0,5 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
phenol	Fresh water	0,008 mg/l
	Marine water	0,001 mg/l
	Fresh water sediment	0,091 mg/kg dwt
	Marine sediment	0,009 mg/kg dwt
	Soil	0,136 mg/kg dwt
	Intermittent use/release	0,031 mg/l
	Sewage treatment plant	2,1 mg/l

8.2 Exposure controls

Engineering measures

Minimise exposure using measures such as closed systems, dedicated facilities and suitable general / local exhaust ventilation.

Ensure safe systems of work or equivalent arrangements are in place to manage risks.

Regularly inspect, test and maintain all control measures.



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Personal protective equipment

Eye protection : Wear goggles (DIN EN 58211) and if needed face-shield.

Hand protection

Material : thick PVC
Break through time : > 480 min

Material : Neoprene
Break through time : 140 min

Material : polyvinylchloride (PVC)

Break through time : 75 min

Remarks : The selected protective gloves have to satisfy the

specifications of Regulation (EU) 2016/425 and the standard

EN 374 derived from it.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

Skin and body protection : Wear suitable protective clothing.

Safety shoes according to EN 345-347.

If splashes are likely to occur:

Complete suit protecting against chemicals

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Respirator with combination filter for vapour/particulate (EN

141)

Filter type : ABEK-P3-filter

Protective measures : Avoid exposure - obtain special instructions before use.

Ensure that eye flushing systems and safety showers are

located close to the working place.

Provide specific activity training to operators to minimise

exposures.

Consider the need for risk based health surveillance.

Identify and implement corrective actions.

Environmental exposure controls

General advice : Should not be released into the environment. Prevent product

from entering drains. If the product contaminates rivers and

lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : solid

solid (< 40,9 °C)



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

liquid (> 40,9 °C)

Colour colourless (liquid), white (solid)

Change in colour if exposed to air and light:, pink, red

Odour pungent

Odour Threshold 0,006 - 6 ppm

Melting point 40,9 °C

Boiling point 181,9 °C (1.013 hPa)

Upper explosion limit / Upper :

flammability limit

9,0 %(V)

Lower explosion limit / Lower : 1,3 %(V)

flammability limit

81 °C Flash point

Method: ISO 2719

595 °C Auto-ignition temperature

Method: DIN 51794

рН 4 - 5 (20 °C)

Concentration: 10 g/l

Viscosity

Viscosity, dynamic : 3,437 mPa.s (50 °C)

Solubility(ies)

Water solubility 84 g/l (20 °C)

87 g/l (25 °C)

completely miscible (68 °C)

Solubility in other solvents Soluble in most organic solvents.

Solvent: Fat solubility

Vapour pressure : 0,2 hPa (20 °C)

3 hPa (50 °C)

1,07 g/cm3 (20 °C) Density

> 1,13 g/cm³ (25 °C) Method: DIN 51757



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Relative vapour density : 3,2 (20 °C)

(Air = 1.0)

Particle size : 3 - 10 mm

9.2 Other information

Explosives : Not explosive

Oxidizing properties : Not oxidizing

Self-ignition : 715 °C

1.013 hPa

Molecular weight : 94,11 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

May attack many plastics, rubbers and coatings.

hygroscopic

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Exposure to air.

Exposure to sunlight.

Keep away from heat and sources of ignition. No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

Aldehydes Isocyanates Nitrites Nitride

Friedel-Crafts catalysts

Metals

Vapours may form explosive mixtures with air.



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

10.6 Hazardous decomposition products

Heating or fire can release toxic and corrosive gases.

Under fire conditions: Carbon monoxide Carbon dioxide (CO2)

SECTION 11: Toxicological information

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

Acute toxicity

Toxic if swallowed, in contact with skin or if inhaled.

Components:

phenol:

Acute oral toxicity : LD50 (Rat): 340 mg/kg

Method: OECD Test Guideline 401

LDLo (Humans): 140 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 900 mg/m3

Exposure time: 8 h

Test atmosphere: dust/mist

Symptoms: Irritation of mucous membranes, Shortness of

breath, Respiratory disorders

Remarks: Toxic.

Danger of serious damage to health by prolonged exposure.

Acute dermal toxicity : LD50 (Rat): 660 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Causes severe burns.

Components:

phenol:

Remarks : Exposure quickly causes a strong corrosive action upon all

body tissue.

Possible risk of irreversible effects.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

phenol:



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Species : Rabbit Exposure time : 72 h

Method : OECD Test Guideline 405

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

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

Respiratory sensitisation

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

Germ cell mutagenicity

Suspected of causing genetic defects.

Components:

phenol:

Genotoxicity in vitro : Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

: Test Type: in vitro assay

Method: OECD Test Guideline 487

Result: positive

Genotoxicity in vivo : Test Type: in vivo assay

Method: Mutagenicity (micronucleus test)

Result: weak positive

Germ cell mutagenicity-

: In vitro tests showed mutagenic effects, Suspected of causing

Assessment

genetic defects.

Carcinogenicity

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

Components:

phenol:

Remarks : Animal testing did not show any carcinogenic effects.

IARC: (International Agency for Research on Cancer) Group 3: Not classifiable as to its carcinogenicity to humans

Reproductive toxicity

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

Components:

phenol:

Effects on fertility : Remarks: No known effect.



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

STOT - single exposure

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

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

phenol:

Species : Rat

NOAEL : 300 mg/kg, bw/d

Application Route : Oral

Remarks : Systemic effects

Subchronic toxicity

Remarks : Prolonged exposure may cause chronic effects:

disorder of nervous system, injuries to liver and kidneys. Repeated skin contact:

dermatitis,

disorder of pigmentation.

Aspiration toxicity

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

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Experience with human exposure

Product:

General Information : Toxic by inhalation, in contact with skin and if swallowed.

Absorbs rapidly into the body by inhalation, skin contact and

oral intake.

Symptoms of poisoning:

vomiting, Convulsions shock,



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

irregular cardiac activity, unconsciousness, difficulty in breathing, Cessation of breathing death.

May have effects on: Central nervous system

heart, liver, kidneys, urine (dark)

Components:

phenol:

General Information : Absorbs rapidly into the body by inhalation, skin contact and

oral intake.

Further information

Product:

Remarks : Symptoms may be delayed.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Long-term (chronic) aquatic

hazard

: Toxic to aquatic life with long lasting effects.

Components:

phenol:

Toxicity to fish : Remarks: Toxic to aquatic life with long lasting effects.

LC50 (Oncorhynchus mykiss (rainbow trout)): 8,9 mg/l

Exposure time: 96 h
Test substance: phenol

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Ceriodaphnia dubia (water flea)): 3,1 mg/l

Exposure time: 48 h
Test substance: phenol

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 61,1

mg/l



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Exposure time: 96 h Test substance: phenol

EC50 (Entomoneis of punctulata (diatom)): 76 mg/l

Exposure time: 72 h
Test substance: phenol

EC50 (Lemna minor (duckweed)): 61,82 mg/l

Exposure time: 7 d Test substance: phenol

Toxicity to fish (Chronic

toxicity)

: NOEC: 0,077 mg/l Exposure time: 60 d Species: Cirrhina mrigala Test substance: phenol

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: EC10: 0,46 mg/l Exposure time: 16 d

Species: Daphnia magna (Water flea)

Test substance: phenol

Plant toxicity : EC50: 79 mg/kg

Exposure time: 14 d

Species: Lactuca sativa (lettuce)

Test substance: phenol

12.2 Persistence and degradability

Components:

phenol:

Biodegradability : activated sludge

Result: Readily biodegradable.

Biodegradation: 62 %

Method: OECD Test Guideline 301C

Test substance: phenol

Chemical Oxygen Demand

(COD)

: 2.300 mg/g

Test substance: phenol

Photodegradation : Test substance: phenol

Remarks: Estimated atmospheric lifetime:

14h

Photodegradable.

12.3 Bioaccumulative potential

Components:

phenol:



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Bioaccumulation : Species: Danio rerio (zebra fish)

Bioconcentration factor (BCF): 17,5

Elimination: yes

Test substance: phenol

Method: OECD Test Guideline 305E Remarks: Bioaccumulation not expected.

12.4 Mobility in soil

Components:

phenol:

Mobility : Medium: Air

: Medium: Water

Remarks: The product evaporates slowly., The product is

soluble in water.

: Medium: Soil

Remarks: High mobility

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological

information

: Should not be released into the environment.

Prevent product from entering drains.



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of as hazardous waste in compliance with local and

national regulations.

Where possible recycling is preferred to disposal or

incineration.

European waste code:

07 01 99 (wastes not otherwise specified (basic organic

chemicals))

Contaminated packaging : Dispose of as hazardous waste in compliance with local and

national regulations.

Reuse or recycle if not contaminated.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 2312 RID : UN 2312 IMDG : UN 2312

14.2 UN proper shipping name

ADR : PHENOL, MOLTEN : PHENOL, MOLTEN IMDG : PHENOL, MOLTEN

14.3 Transport hazard class(es)

ADR : 6.1 RID : 6.1 IMDG : 6.1

14.4 Packing group

ADR

Packing group : II
Classification Code : T1
Hazard Identification Number : 60



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Labels : 6.1 Tunnel restriction code : (D/E)

RID

Packing group : II
Classification Code : T1
Hazard Identification Number : 60
Labels : 6.1

IMDG

Packing group : II Labels : 6.1 EmS Code : F-A, S-A

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Remarks : Other UN-Number: 1671 (PHENOL, SOLID)

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Ship type : 2 Pollution category : Y

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on : Not applicable the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Category Quantity 1 Quantity 2



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1	on 19.1 Revision Date: 18.06.2025		Former date: 27.12.2023		
H2	ACUTE TOXIC	50 t	200 t		
E2	ENVIRONMENTAL HAZARDS	200 t	500 t		

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of other abbreviations

2009/161/EU : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing

a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending

Commission Directive 2000/39/EC

2009/161/EU / TWA : Limit Value - eight hours 2009/161/EU / STEL : Short term exposure limit

Further information

Training advice : Provide adequate information, instruction and training for

operators.

Regular trainings of all employees which are involved in the transport of dangerous goods (according to chapter 1.3 ADR).

Other information : Issued according to Regulation (EC) No 1907/2006, Annex II,

and its amendments.

Changes since the last version are highlighted in the margin.

This version replaces all previous versions.

Issuer : Borealis, Group Product Stewardship

Sources of key data used to

compile the Safety Data

Sheet

REACH Registration Dossier Phenol. P&D-REACH

Consortium, 2023

International Chemical Safety Card, Phenol, October 2001 (http://www.inchem.org/documents/icsc/icsc/eics0070.htm)



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

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according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Annex: Exposure Scenarios

Table of Contents

Identified uses:

Use: Manufacture of substance, Manufacture

Main User Groups : SU3: Industrial uses

Process categories PROC1: Chemical production or refinery in closed process

without likelihood of exposure or processes with equivalent

containment conditions

Environmental Release Categories : ERC1: Manufacture of the substance

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-1-

Manufacture.pdf

Use: Formulation & (re)packing of substances and mixtures, Distribution of substance, Formulation or re-packing

Main User Groups : SU3: Industrial uses

Process categories **PROC1:** Chemical production or refinery in closed process

without likelihood of exposure or processes with equivalent

containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure

or processes with equivalent containment condition

PROC5: Mixing or blending in batch processes

PROC6: Calendering operations PROC7: Industrial spraying

PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture

(charging/discharging) at dedicated facilities

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

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring PROC14: Tabletting, compression, extrusion, pelettisation,

granulation

ERC2: Formulation into mixture **Environmental Release Categories**



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-2-Formulation-or-repacking.pdf

Use: Use as an intermediate, Use at industrial sites

Main User Groups : SU3: Industrial uses

Sectors of end-use : **SU8, SU9:** Manufacture of bulk, large scale chemicals

(including petroleum products), Manufacture of fine chemicals

Chemical product category : **PC0:** Other

PC21: Laboratory chemicals PC29: Pharmaceuticals PC30: Photo-chemicals

PC35: Washing and cleaning products **PC39:** Cosmetics, personal care products

Process categories : **PROC1:** Chemical production or refinery in closed process

without likelihood of exposure or processes with equivalent

containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure

or processes with equivalent containment condition **PROC5**: Mixing or blending in batch processes

PROC6: Calendering operations **PROC7:** Industrial spraying

PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities **PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities

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

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring **PROC14:** Tabletting, compression, extrusion, pelettisation,

granulation

PROC15: Use as laboratory reagent

PROC28: Manual maintenance (cleaning and repair) of

machinery

Environmental Release Categories : ERC6a: Use of intermediate

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-3-Use-at-industrial-site-Use-as-Intermediate.pdf

Use: Use in polymer production, Use at industrial sites



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Main User Groups SU3: Industrial uses

Sectors of end-use : **SU12:** Manufacture of plastics products, including

compounding and conversion

Chemical product category PC32: Polymer preparations and compounds

: **PROC1:** Chemical production or refinery in closed process Process categories without likelihood of exposure or processes with equivalent

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure

or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure

PROC5: Mixing or blending in batch processes

PROC6: Calendering operations

PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

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

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring PROC14: Tabletting, compression, extrusion, pelettisation,

granulation

PROC15: Use as laboratory reagent

PROC28: Manual maintenance (cleaning and repair) of

machinery

ERC6c: Use of monomer in polymerisation processes at **Environmental Release Categories**

industrial site (inclusion or not into/onto article)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-4-Use-atindustrial-site-Polymer-manufacturing.pdf

Use: Use in polymer processing, Use at industrial sites

Main User Groups : SU3: Industrial uses

Sectors of end-use : SU12: Manufacture of plastics products, including

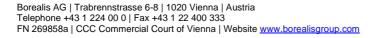
compounding and conversion

Chemical product category

: **PC32:** Polymer preparations and compounds Process categories : PROC5: Mixing or blending in batch processes

PROC6: Calendering operations

PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities





according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

PROC28: Manual maintenance (cleaning and repair) of

machinery

Environmental Release Categories : **ERC6c:** Use of monomer in polymerisation processes at

industrial site (inclusion or not into/onto article)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-5-Use-at-industrial-site-Polymer-Processing.pdf

Use: Use in rubber production and processing, Use at industrial sites

Main User Groups : SU3: Industrial uses

Sectors of end-use : SU11: Manufacture of rubber products

Chemical product category : **PC0:** Other

Process categories : PROC1: Chemical production or refinery in closed process

without likelihood of exposure or processes with equivalent

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure

or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure

arises

PROC5: Mixing or blending in batch processes

PROC6: Calendering operations PROC7: Industrial spraying

PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

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

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring **PROC14:** Tabletting, compression, extrusion, pelettisation,

granulation

PROC28: Manual maintenance (cleaning and repair) of

machinery

Environmental Release Categories : **ERC6d:** Use of reactive process regulators in polymerisation

processes at industrial site (inclusion or not into/onto article)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-6-Use-at-industrial-site-Rubber-production-and-processing.pdf



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Use: Phenolic resin processing (uses of downstream users of phenolic resins), Use at industrial sites

Main User Groups : SU3: Industrial uses

Sectors of end-use : **SU8, SU12:** Manufacture of bulk, large scale chemicals

(including petroleum products), Manufacture of plastics products, including compounding and conversion

Chemical product category : PC32: Polymer preparations and compounds

Process categories : PROC1: Chemical production or refinery in closed process

without likelihood of exposure or processes with equivalent

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure

or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure

arises

PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

PROC14: Tabletting, compression, extrusion, pelettisation,

granulation

PROC15: Use as laboratory reagent

Environmental Release Categories : **ERC4:** Use of non-reactive processing aid at industrial site (no

inclusion into or onto article)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-7-Use-at-industrial-site-Phenolic-Resin-processing-DU-uses-of-Phenolic-Resins-25.pdf

Use: Use as binders and release agents, Use at industrial sites

Main User Groups : SU3: Industrial uses

Chemical product category : **PC24:** Lubricants, greases, release products

Process categories : **PROC1:** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure

arises

PROC5: Mixing or blending in batch processes

PROC6: Calendering operations **PROC7:** Industrial spraying

PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

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

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring **PROC28:** Manual maintenance (cleaning and repair) of

machinery

Environmental Release Categories : ERC5: Use at industrial site leading to inclusion into/onto

article

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-8-Use-at-industrial-site-Use-as-binder-or-release-agent.pdf

Use: Use in coatings, Use at industrial sites

Main User Groups : SU3: Industrial uses

Chemical product category : **PC9a:** Coatings and paints, thinners, paint removers Process categories : **PROC5:** Mixing or blending in batch processes

PROC8. Wixing of blending in batch processes

PROC8a: Transfer of substance or mixture
(charging/discharging) at non dedicated-facilities

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

Environmental Release Categories : ERC4: Use of non-reactive processing aid at industrial site (no

inclusion into or onto article)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-9-Use-at-industrial-site-Uses-in-coatings.pdf

Use: Use in laboratories, Use at industrial sites

Main User Groups : SU3: Industrial uses

Sectors of end-use : **SU8, SU9, SU24:** Manufacture of bulk, large scale chemicals

(including petroleum products), Manufacture of fine chemicals,



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Scientific research and development

Chemical product category : PC1: Adhesives, sealants

PC3: Air care products

PC4: Anti-freeze and de-icing products

PC8: Biocidal products

PC9a: Coatings and paints, thinners, paint removers

PC9b: Fillers, putties, plasters, modelling clay

PC9c: Finger paints PC12: Fertilizers

PC15: Non-metal surface treatment products

PC21: Laboratory chemicals

PC24: Lubricants, greases, release products

PC27: Plant protection products

PC29: Pharmaceuticals PC30: Photo-chemicals

PC31: Polishes and wax blends

PC32: Polymer preparations and compounds **PC35:** Washing and cleaning products

PC38: Welding and soldering products, flux products

PC39: Cosmetics, personal care products

PC40: Extraction agents

PC0: Other

Process categories : **PROC8a:** Transfer of substance or mixture

(charging/discharging) at non dedicated-facilities

PROC10: Roller application or brushing PROC15: Use as laboratory reagent

PROC19: Manual activities involving hand contact **PROC28:** Manual maintenance (cleaning and repair) of

machinery

Environmental Release Categories : ERC4: Use of non-reactive processing aid at industrial site (no

inclusion into or onto article)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-10-Use-at-industrial-site-Use-in-laboratories.pdf

Use: Formulation & (re)packing of substances and mixtures, Leather treatment products, Use at industrial sites

Main User Groups : SU3: Industrial uses

Chemical product category : **PC23:** Leather treatment products

Process categories : **PROC1:** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

entoinment conditions

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure

or processes with equivalent containment condition PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

Environmental Release Categories : ERC6a: Use of intermediate

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-11-Use-at-industrial-site-DoU-Formulation-Leather-treatment.pdf

Use: Use in agrochemicals, Use at industrial sites

Main User Groups : SU3: Industrial uses

Sectors of end-use : **SU9:** Manufacture of fine chemicals

Chemical product category : PC12: Fertilizers

PC0: Other

Process categories : **PROC4:** Chemical production where opportunity for exposure

arises

PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) **PROC14:** Tabletting, compression, extrusion, pelettisation,

granulation

PROC15: Use as laboratory reagent

Environmental Release Categories : ERC6a: Use of intermediate

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-12-Use-at-industrial-site-Agrochemical-uses.pdf

Use: Phenolic resin processing (uses of downstream users of phenolic resins), Use at industrial sites

Main User Groups : SU3: Industrial uses

Chemical product category : **PC32:** Polymer preparations and compounds

Process categories : **PROC1:** Chemical production or refinery in closed process

without likelihood of exposure or processes with equivalent



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure

arises

PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

PROC14: Tabletting, compression, extrusion, pelettisation,

granulation

PROC15: Use as laboratory reagent

Environmental Release Categories : ERC4: Use of non-reactive processing aid at industrial site (no

inclusion into or onto article)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-13-Use-at-industrial-site-Phenolic-Resin-processing-DU-uses-of-Phenolic-Resins-1.pdf

Use: Use in polymer production, Widespread use by professional workers

Main User Groups

Chemical product category

Process categories

: SU22: Professional uses

: PC32: Polymer preparations and compounds

: **PROC1:** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC14: Tabletting, compression, extrusion, pelettisation,

granulation

Environmental Release Categories : ERC8c: Widespread use leading to inclusion into/onto article

(indoor)

Additional information available from:



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-14-Widespread-use-by-professional-workers-Polymer-manufacturing.pdf

Use: Use in polymer processing, Widespread use by professional workers

Main User Groups : SU22: Professional uses

Chemical product category : PC32: Polymer preparations and compounds

Process categories : **PROC1:** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

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

Environmental Release Categories : ERC8c: Widespread use leading to inclusion into/onto article

(indoor)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-15-Widespread-use-by-professional-workers-Polymer-processing.pdf

Use: Phenolic resin processing (uses of downstream users of phenolic resins), Widespread use by professional workers

Main User Groups : **SU22:** Professional uses

Chemical product category : **PC32:** Polymer preparations and compounds

Process categories : **PROC1:** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure

or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure

arises

PROC5: Mixing or blending in batch processes **PROC8a:** Transfer of substance or mixture (charging/discharging) at non dedicated-facilities



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

PROC14: Tabletting, compression, extrusion, pelettisation,

granulation

PROC15: Use as laboratory reagent

Environmental Release Categories : ERC8a: Widespread use of non-reactive processing aid (no

inclusion into or onto article, indoor)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-16-Widespread-use-by-professional-workers-Phenolic-resins-processing-DU-uses-of-phenolic-resins.pdf

Use: Use in laboratories, Widespread use by professional workers

Main User Groups : **SU22:** Professional uses Chemical product category : **PC21:** Laboratory chemicals

Process categories : PROC10: Roller application or brushing

PROC15: Use as laboratory reagent

Environmental Release Categories : ERC8a: Widespread use of non-reactive processing aid (no

inclusion into or onto article, indoor)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-17-Widespread-use-by-professional-workers-Use-in-laboratories.pdf

Use: Use in coatings, Widespread use by professional workers

Main User Groups : **SU22:** Professional uses

Chemical product category
Process categories

PC9a: Coatings and paints, thinners, paint removers
PROC5: Mixing or blending in batch processes
PROC8a: Transfer of substance or mixture

(charging/discharging) at non dedicated-facilities

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouringERC8b: Widespread use of reactive processing aid (no

inclusion into or onto article, indoor)

Additional information available from:

Environmental Release Categories

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-18-Widespreaduse-by-professional-workers-Use-in-coatings.pdf

Use: Use in binder and release agents, Widespread use by professional workers



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Main User Groups : SU22: Professional uses

Chemical product category : **PC24:** Lubricants, greases, release products

Process categories : **PROC1:** Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

containment conditions

PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure

or processes with equivalent containment condition

PROC4: Chemical production where opportunity for exposure

arises

PROC5: Mixing or blending in batch processes

PROC6: Calendering operations

PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities **PROC8b:** Transfer of substance or mixture (charging/discharging) at dedicated facilities

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

PROC10: Roller application or brushing

PROC14: Tabletting, compression, extrusion, pelettisation,

granulation

Environmental Release Categories : ERC8b: Widespread use of reactive processing aid (no

inclusion into or onto article, indoor)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-19-Widespread-use-by-professional-workers-Use-as-binders-and-release-agents.pdf

Use: Use in agrochemicals, Widespread use by professional workers

Main User Groups : SU22: Professional uses

Chemical product category : PC12: Fertilizers

PC0: Other

Process categories : **PROC4:** Chemical production where opportunity for exposure

arises

PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities PROC8b: Transfer of substance or mixture (charging/discharging) at dedicated facilities

Environmental Release Categories : ERC8b: Widespread use of reactive processing aid (no

inclusion into or onto article, indoor)



according to Regulation (EC) No. 1907/2006, as amended

Phenol

Version 19.1 Revision Date: 18.06.2025 Former date: 27.12.2023

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-20-Widespread-use-by-professional-workers-Agrochemical-uses.pdf

Use: Consumer uses, Service life - consumers

Main User Groups : **SU21:** Consumer uses Article categories : **AC 0:** Other Articles

Environmental Release Categories : **ERC10a, ERC11a:** Widespread use of articles with low

release (outdoor). Widespread use of articles with low release

(indoor)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-21-Service-life-consumers-Paper-phenolic-circuit-board-and-phenol-resin-impregnated-paper.pdf

Use: Consumer uses, Service life - consumers

Main User Groups : **SU21:** Consumer uses

Article categories : AC2: Machinery, mechanical appliances, electrical/electronic

articles

Environmental Release Categories : ERC10a, ERC11a: Widespread use of articles with low

release (outdoor), Widespread use of articles with low release

(indoor)

Additional information available from:

https://www.borealisgroup.com/storage/Base-Chemicals/Phenol/Exposure-Scenarios/ES-22-Service-life-consumers-Indoor-air-exposure-from-electronic-equipment.pdf

