



# Sophix Natural

## And Agro Products Ltd

RC-1615742

Safety Data Sheet

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

#### Product identifier

Product name : Resorcinol  
CBnumber : CB5671946  
CAS : 108-46-3  
EINECS Number : 203-585-2  
Synonyms : RESORCINOL, 1,3-benzenediol

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : None

#### Company Identification

Company : SOPHIX NATURAL & AGRO PRODUCTS, LTD  
Address : Plot 9, Zone A, Liguori street, oke omi, National bus stop, along Ife Road Ibadan  
Telephone : 0706-1111-838

### SECTION 2: Hazards identification

#### GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word : Danger

#### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.  
P337+P313 IF eye irritation persists: Get medical advice/attention.  
P410 Protect from sunlight.

#### Hazard statements

H302 Harmful if swallowed  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H370 Causes damage to organs  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects



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### SECTION 3: Composition/information on ingredients

#### Substance

Product name	: Resorcinol
Synonyms	: RESORCINOL, 1,3-benzenediol
CAS	: 108-46-3
EC number	: 203-585-2
MF	: C <sub>6</sub> H <sub>6</sub> O <sub>2</sub>
MW	: 110.11

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### SECTION 4: First aid measures

#### Description of first aid measures

##### General advice

Show this material safety data sheet to the doctor in attendance.

##### If inhaled

After inhalation: fresh air. Call in physician.

##### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

##### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

##### If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

#### 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 in section 11 **Indication of any immediate medical attention and special treatment needed**

No data available

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

##### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special hazards arising from the substance or mixture

Carbon oxides Combustible.

Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating.



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Development of hazardous combustion gases or vapours possible in the event of fire.

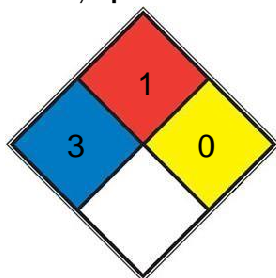
### Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

### Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

### NFPA 704



Short exposure could cause serious temporary or moderate residual injury (e.g. [liquid hydrogen](#), [sulfuric acid](#), [calcium](#)

■ HEALTH 3 [hypochlorite](#), hexafluorosilicic acid)

Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion

■ FIRE 1 can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. [mineral oil](#), ammonia)

■ REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, [N<sub>2</sub>](#))

SPEC.

□  
HAZ.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### Reference to other sections

For disposal see section 13.



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### SECTION 7: Handling and storage

#### Precautions for safe handling

For precautions see section 2.2.

#### Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Air and light sensitive.

#### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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### SECTION 8: Exposure controls/personal protection

#### control parameter

#### Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

#### Exposure controls

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

##### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatrill? L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatrill? L **Body**

##### Protection

protective clothing

##### Respiratory protection



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Recommended Filter type: Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

**Control of environmental exposure** Do

not let product enter drains.

### Exposure limits

TLV-TWA 10 ppm ( $\sim 45 \text{ mg/m}^3$ ) (ACGIH); STEL 20 ppm (ACGIH).

## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

Appearance	solid
Odour	No data available
Odour Threshold	No data available
pH	4,4 at 50 g/l at 20 °C
Melting point/freezing point	Melting point/range: 109 - 111 °C
Initial boiling point and boiling range 178 °C at 21 hPa - lit.	
Flash point	127 °C - closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive	Lower explosion limit: 1,4 %(V) limits
Vapour pressure	1 hPa at 21,1 °C
Vapour density	3,8 (vs air)
Relative density	No data available
Water solubility	717 g/l at 25 °C - soluble
Partition coefficient: n-octanol/water log Pow: 0,8 at 20 °C - Bioaccumulation is not expected.	
Autoignition temperature	605 - 608 °C at 1.013 hPa
Decomposition temperature	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Explosive properties	No data available
Oxidizing properties	No data available



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### Other safety information

Surface tension 72 mN/m at 1g/l at 20 °C

- OECD Test Guideline 115 Dissociation constant 9,81 at 25 °C

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### SECTION 10: Stability and reactivity

#### Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

#### Possibility of hazardous reactions

Risk of explosion with:

Nitric acid

Exothermic reaction with: Ammonia

Amines

organic nitro compounds Strong oxidizing agents

Violent reactions possible with: bases metallic salts

Iron

Acid anhydrides Acid chlorides

#### Conditions to avoid

Strong heating.

#### Incompatible materials

No data available

#### Hazardous decomposition products

In the event of fire: see section 5

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

LD<sub>50</sub> Oral - Rat - male and female - 510 mg/kg

(OECD Test Guideline 401) Inhalation

LD<sub>50</sub> Dermal - Rabbit - male - 2.830 mg/kg Remarks: (ECHA)

##### Skin corrosion/irritation

Skin - Rabbit



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Result: Irritating to skin. - 24 h Remarks: (ECHA)

(Regulation (EC) No 1272/2008, Annex VI)

### **Serious eye damage/eye irritation**

Eye - Rabbit

Result: Irreversible effects on the eye - 72 h Remarks: (ECHA)

### **Respiratory or skin sensitization**

Local lymph node assay (LLNA) - Mouse

Result: positive

(OECD Test Guideline 429)

### **Germ cell mutagenicity**

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471

Result: negative

Test Type: Mutagenicity (mammal cell test): micronucleus. Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487

Result: positive

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation Result: positive

Remarks: (ECHA)

Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476

Result: Positive results were obtained in some in vitro tests.

Test Type: sister chromatid exchange assay Species: Rat

Application Route: Oral

Result: negative Remarks: (ECHA)

Test Type: Micronucleus test Species: Rat

Cell type: Bone marrow Application Route: Oral

Method: OECD Test Guideline 474 Result: negative

Test Type: in vivo assay

Species: Drosophila melanogaster Application Route: Oral

Result: negative Remarks: (ECHA)

Test Type: sister chromatid exchange assay Species: Rat

Application Route: Intraperitoneal Result: negative

Remarks: (ECHA)

Test Type: sister chromatid exchange assay Species: Rat

Application Route: Dermal

Result: negative Remarks: (ECHA)

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

No data available



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### Specific target organ toxicity - single exposure

Oral - Causes damage to organs. - Central nervous system, Blood Oral - May cause damage to organs. - Respiratory system

### Specific target organ toxicity - repeated exposure

No data available

### Aspiration hazard

No data available

### Toxicity

LD50 orally in Rabbit: 301 mg/kg LD50 dermal Rabbit 3360 mg/kg

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## SECTION 12: Ecological information

### Toxicity

#### Toxicity to fish

flow-through test LC50 - Pimephales promelas (fathead minnow) - 29,5 mg/l - 96 h  
(US-EPA)

#### Toxicity to daphnia and other aquatic invertebrates

semi-static test LC50 - Daphnia magna (Water flea) - 1 mg/l - 48 h (OECD Test Guideline 202)

static test ErC50 - Pseudokirchneriella subcapitata (green algae) - > 97 mg/l - 72 h  
(OECD Test Guideline 201)

#### Toxicity to bacteria

Respiration inhibition EC50 - activated sludge - 79 mg/l - 3 h (OECD Test Guideline 209)

### Persistence and degradability

Biodegradability aerobic - Exposure time 14 d

Result: 66,7 % - Readily biodegradable. (OECD Test Guideline 301C)

Theoretical oxygen 1.890 mg/g demand Remarks: (Lit.)

Ratio BOD/ThBOD 61 %

Remarks: (Lit.)

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Results of PBT and vPvB 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.

### Other adverse effects

No data available

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### SECTION 13: Disposal considerations

#### Waste treatment methods

##### In compatibilities

Reacts with oxidizers, nitric acid; oil, ferric salts; methanol, acetanilide, albumin, antipyrine, alkalies, urethane, ammonia, amino compounds.

Hygrosopic; absorbs moisture from the air.

##### Waste Disposal

Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Generators of waste containing this contaminant ( $\geq 100$  kg/mo) must conform with EPA regulations governing storage, transportation, treatment, and waste disposal. Dissolve in a combustible solvent and incinerate.

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### SECTION 14: Transport information

#### UN number

ADR/RID: 2876 IMDG: 2876

#### UN proper shipping name

ADR/RID: RESORCINOL IMDG: RESORCINOL IATA: Resorcinol

#### Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

#### Packaging group

ADR/RID: III IMDG: III IATA: III

#### Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no

#### Special precautions for user

No data available

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### SECTION 15: Regulatory information

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

##### Regulations on the Safety Management of Hazardous Chemicals

China Catalog of Hazardous chemicals 2015: Listed. website: <https://www.mem.gov.cn/>

##### Measures for Environmental Management of New Chemical Substances

European Inventory of Existing Commercial Chemical Substances (EINECS): Listed. website: <https://echa.europa.eu/>

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC): Listed. website: <https://www.mee.gov.cn/>

Vietnam National Chemical Inventory: Listed. website: <https://chemicaldata.gov.vn/>

Korea Existing Chemicals List (KECL): Listed. website: <http://ncis.nier.go.kr>

New Zealand Inventory of Chemicals (NZIoC): Listed. website: <https://www.epa.govt.nz/> EC

Inventory: Listed.



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Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed. website: <https://emb.gov.ph/>

United States Toxic Substances Control Act (TSCA) Inventory: Listed. website: <https://www.epa.gov/>

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### SECTION 16: Other information

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

【1】 CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

【2】 ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

【3】 ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

【4】 eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:

[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)

【5】 ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>

【6】 Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index2.jsp>

【7】 HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

【8】 IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

【9】 IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home> 【10】 Sigma-

Aldrich, website: <https://www.sigmaaldrich.com/>

#### Other Information

##### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS