

**Coal Tar Phenol**

Metinvest International Italia s.r.l.

Date 01/10/2011

Previous date: 24/11/2010

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****1.1.1 Commercial Product Name**

Coal Tar Phenol

**1.1.2 Product code**

Chemical Name: Phenol

CAS-No.: 108-95-2

EINECS-No.: 203-632-7

Synonyms: Coal phenol

REACH Registration Number: This information is not available. (Pre-Registration completed)

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

Applied as raw materials for organic synthesis and other uses.

**1.3 Details of the supplier of the safety data sheet****1.3.1 Supplier**

Metinvest International Italia s.r.l.

**Street address**

Via Antonio Salieri 36

**Postcode and post office**

37050 Vallese di Oppeano (VR)

Italy

**Telephone**

+39 045 6983398; +39 3482235002

**Email**

REACHSDS@metinvestholding.com

**1.3.3 Identification of the non-community manufacturer**

Inkor and Co Scientific and Manufacturing Company LLC, Coke-chemical Industry Phenol Plant

Illichava ave. 93a

83003 Donetsk

Ukraine

Telephone: (062) 345-18-62, (062) 340-14-30

Telefax: (062) 332-24-32 ;332-24-35; (062) 340-14-32

Email: Vitolda.Grek@inkor.donetsk.ua

**1.4 Emergency telephone number****1.4.1 Telephone number, name and address**Poison centres, Europe: <http://www.who.int/pcc/poisons/centre/directory/euro/en/>

See SECTION 16.6 for the list of telephone numbers of poison centers in the European Economic Area.

**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Acute Tox. 3, H301

Acute Tox. 3, H311

Acute Tox. 3, H331

Muta. 2, H341

STOT RE 2, H373

Skin Corr. 1B, H314

**2.2 Label elements****67/548/EEC (DSD):**

Muta. Cat. 3; R68

T; R23/24/25

Xn; R48/20/21/22

C; R34

**1272/2008 (CLP)**

GHS08 - GHS06 - GHS05

Signal word

**Danger****Hazard Statements**

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.



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- H341 Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
- H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
- H314 Causes severe skin burns and eye damage.

**Precautionary Statements**

- P201 Obtain special instructions before use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P363 Wash contaminated clothing before reuse.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations

**2.3 Other hazards****Concentration limits 1272/2008 (CLP):**

- C<sub>≥3%</sub> : Skin Corr 1B; H314
- 1% ≤C < 3% : Skin Irrit. 2; H315
- 1% ≤C < 3% : Eye Irrit. 2; H319

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Monoconstituent substance

CAS	EC number	Chemical name of the substance	Concentration	Classification
108-95-2	203-632-7	phenol	>99%	<b>1272/2008 (CLP):</b> Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; STOT RE 2, H373; Skin Corr. 1B, H314 <b>67/548/EEC (DSD):</b> Muta. Cat. 3, R68; T, R23/24/25; Xn, R48/20/21/22; C, R34

**SECTION 4. FIRST AID MEASURES****4.1 Description of first aid measures**

Get medical attention immediately. If breathed in, move person into fresh air. Keep at rest. Treat symptomatically. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Always have on hand a first-aid kit, together with proper instructions.

**4.1.2 Inhalation**

If inhaled, remove to fresh air. If breathing is laboured, administer oxygen. Give oxygen or artificial respiration if needed.

**4.1.3 Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

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**4.1.4 Eye contact**

Rinse immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

**4.1.5 Ingestion**

Do NOT induce vomiting. Ingest activated charcoal. If possible drink milk afterwards. Treat symptomatically.

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

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

**4.3 Indication of immediate medical attention and special treatment needed**

no data available

**SECTION 5. FIREFIGHTING MEASURES**

Container may rupture on heating. Keep away from open flames, hot surfaces and sources of ignition. Cool closed containers exposed to fire with water spray.

**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.1.2 Extinguishing media which must not be used for safety reasons**

no data available

**5.2 Special hazards arising from the substance or mixture**

Hazardous combustion products. Carbon oxides. Hazardous decomposition products due to incomplete combustion.

**5.3 Advice for firefighters**

Special protective equipment for fire-fighters. Wear self-contained breathing apparatus and protective suit.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use only with adequate ventilation and in closed systems. Use personal protective equipment. Wear respiratory protection. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Mark the contaminated area with signs and prevent access to unauthorized personnel.

**6.2 Environmental precautions**

Evacuate personnel to safe areas. Mark the contaminated area with signs and prevent access to unauthorized personnel. Contact the proper local authorities. Soak up with inert absorbent material and dispose of as hazardous waste. Should not be released into the environment. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not allow material to contaminate ground water system. Use personal protective equipment.

**6.3 Methods and materials for containment and cleaning up**

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). Use personal protective equipment. Do not flush into surface water or sanitary sewer system. Suppress (knock down) gases/vapours/mists with a water spray jet.

**6.4 Reference to other sections**

For additional information on processing see sections 7, 8 and 11 of this safety data sheet.

**SECTION 7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Use only with adequate ventilation/personal protection. Use only with adequate ventilation and in closed systems. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Heating can release hazardous gases. Keep away from fire, sparks and heated surfaces.

**7.2 Conditions for safe storage, including any incompatibilities**

Heating can release hazardous gases. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Keep product and empty container away from heat and sources of ignition. Keep away from oxidising agents and strongly acid or alkaline materials. Controlled heating equipment. Store only in heated containers. (50-60°C) Do not store together with oxidizing and self-igniting products.

**7.3 Specific end use(s)**

no data available

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**  
no data available
- 8.1.2 Other information on limit values**  
no data available
- 8.1.3 Limit values in other countries**  
no data available
- 8.1.4 DNELs**  
no data available
- 8.1.5 PNECs**  
no data available
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**  
Avoid contact with skin, eyes and clothing. Use respirator when performing operations involving potential exposure to vapour of the product. When using, do not eat, drink or smoke. Shower or bathe at the end of working. Change working clothes after each workshift. Always have on hand a first-aid kit, together with proper instructions.
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. For rescue and maintenance work in storage tanks use self-contained breathing apparatus. Wear full protective clothing and self-contained breathing apparatus.
- 8.2.2.2 Hand protection**  
Wear suitable gloves and eye/face protection.
- 8.2.2.3 Eye/face protection**  
Face-shield. Safety glasses with side-shields.
- 8.2.2.4 Skin protection**  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.
- 8.2.3 Environmental exposure controls**  
no data available

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1 Important Health Safety and Environmental Information**
- 9.1.1 Appearance**  
Crystalline product, yellow, colourless
- 9.1.2 Odour** phenol-like
- 9.1.3 Odour threshold** no data available
- 9.1.4 pH** weakly acidic
- 9.1.5 Melting point/freezing point** > 40°C
- 9.1.6 Initial boiling point and boiling range** 181.75°C
- 9.1.7 Flash point** >75°C
- 9.1.8 Evaporation rate** no data available
- 9.1.9 Flammability (solid, gas)** no data available
- 9.1.10 Explosive properties**
- 9.1.10.1 Lower explosion limit** no data available
- 9.1.10.2 Upper explosion limit** no data available
- 9.1.11 Vapour pressure** no data available
- 9.1.12 Vapour density** no data available
- 9.1.13 Relative density** 1.0576 g/cm<sup>3</sup> (phenol 41°C, water 4°C)
- 9.1.14 Solubility(ies)**
- 9.1.14.1 Water solubility** 67 g/L (16°C); 9% (25°C); completely soluble at ≥65.3°C
- 9.1.14.2 Fat solubility (solvent - oil to be specified)** soluble

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<b>9.1.15</b>	<b>Partition coefficient: n-octanol/water</b>	no data available
<b>9.1.16</b>	<b>Auto-ignition temperature</b>	>595°C
<b>9.1.17</b>	<b>Decomposition temperature</b>	no data available
<b>9.1.18</b>	<b>Viscosity</b>	no data available
<b>9.1.19</b>	<b>Explosive properties</b>	no data available
<b>9.1.20</b>	<b>Oxidising properties</b>	no data available
<b>9.2</b>	<b>Other information</b>	no data available

**SECTION 10. STABILITY AND REACTIVITY**

- 10.1 Reactivity**  
Stable under recommended storage conditions.
- 10.2 Chemical stability**  
Incompatible with oxidizing agents. Keep away from heat and flame.
- 10.3 Possibility of hazardous reactions**  
Heat, flames and sparks.
- 10.4 Conditions to avoid**  
no data available
- 10.5 Incompatible materials**  
Incompatible with oxidizing agents. Heat, flames and sparks.
- 10.6 Hazardous decomposition products**  
Hazardous combustion products Carbon oxides, Aldehydes , Ketones , Acids

**SECTION 11. TOXICOLOGICAL INFORMATION**

- 11.1 Information on toxicological effects**  
Corrosive - causes irreversible eye damage. Toxic by inhalation, in contact with skin and if swallowed. Causes skin and eye burns. Mutagen - severe effects after repeated or prolonged exposure
- 11.1.1 Acute toxicity**  
Toxic by inhalation, in contact with skin and if swallowed.
- 11.1.2 Irritation and corrosion**  
Corrosive - causes irreversible eye damage. Irritating to eyes, respiratory system and skin.
- 11.1.3 Sensitisation**  
Not classified due to data which are conclusive although insufficient for classification.
- 11.1.4 Subacute, subchronic and prolonged toxicity**  
Inhalation may cause central nervous system effects. Effects of repeated or prolonged skin contacts may include: Irritation, Burn, Central nervous system depression.
- 11.1.5 STOT-single exposure**  
Not classified due to data which are conclusive although insufficient for classification.
- 11.1.6 STOT-repeated exposure**  
Effects of repeated or prolonged skin contacts may include: Irritation Burn Central nervous system depression  
Inhalation may cause central nervous system effects.
- 11.1.7 Aspiration hazard**  
Not classified due to data which are conclusive although insufficient for classification.
- 11.1.8 Other information on acute toxicity**  
no data available

**SECTION 12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**  
Not classified due to data which are conclusive although insufficient for classification.
- 12.1.2 Toxicity to other organisms**  
Not classified due to data which are conclusive although insufficient for classification.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**  
no data available
- 12.2.2 Chemical degradation**

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no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Wear personal protective equipment. Refer to protective measures listed in sections 7 and 8.

Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations. Where possible recycling is preferred to disposal or incineration.

**Waste from residues / unused products**

Store containers and offer for recycling of material when in accordance with the local regulations. Where possible recycling is preferred to disposal or incineration.

**SECTION 14. TRANSPORT INFORMATION****14.1 UN number**

UN2312 / UN1671

**14.2 UN proper shipping name**

PHENOL, MOLTEN / PHENOL, SOLID

**14.3 Transport hazard class(es)**

6.1

**14.4 Packing group**

II

**14.5 Environmental hazards**

Should not be released into the environment.

**14.6 Special precautions for users**

no data available

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

no data available

**SECTION 15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

no data available

**15.2 Chemical safety assessment**

no data available

**SECTION 16. OTHER INFORMATION****16.1 Additions, Deletions, Revisions**

Version : 1.1

This safety data sheet is drawn up to comply with the requirements of Regulation (EC) No. 1907/2006 (REACH), as amended by Annex I to Commission Regulation (EU) No 453/2010 of 20 May 2010.

**16.2 Key or legend to abbreviations and acronyms**

-**REACH** - Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

-**CLP** - Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

-**DSD** - Council Directive 67/548/EEC (Dangerous Substances Directive)

**16.3 Key literature references and sources for data**

Safety data sheet (Coal Tar Phenol), "Inkor and Co Scientific and Manufacturing Company LLC, Coke-chemical Industry Phenol Plant".

**16.4 Classification procedure**

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Not applicable.

**16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R34 Causes burns.  
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  
R68 Possible risk of irreversible effects.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**16.6 Emergency telephone number****Europe-wide emergency number: 112****Contact a poison control centre. List of Telephone Numbers :**

**AUSTRIA** (Vienna Wien) +43 1 406 43 43; **BELGIUM** (Brussels Bruxelles) +32 70 245 245; **BULGARIA** (Sofia) +359 2 9154 409; **CZECH REPUBLIC** (Prague Praha) +420 224 919 293; **DENMARK** (Copenhagen) 82 12 12 12; **ESTONIA** (Tallinn) 112; **FINLAND** (Helsinki) +358 9 471 977; **FRANCE** (Paris) +33 1 40 0548 48; **GERMANY** (Berlin) +49 30 19240; **GREECE** (Athens Athinai) +30 10 779 3777; **HUNGARY** (Budapest) 06 80 20 11 99; **ICELAND** (Reykjavik) +354 525 111, +354 543 2222; **IRELAND** (Dublin) +353 1 8379964; **ITALY** (Rome) +39 06 305 4343; **LATVIA** (Riga) +371 704 2468; **LITHUANIA** (Vilnius) +370 5 236 20 52 or +370 687 53378; **MALTA** (Valletta) 2425 0000; **NETHERLANDS** (Bilthoven) +31 30 274 88 88; **NORWAY** (Oslo) 22 591300; **POLAND** (Gdansk) +48 58301 65 16 or +48 58 349 2831; **PORTUGAL** (Lisbon Lisboa) 808 250 143; **ROMANIA** (Bucharest) +40 21 3183606; **SLOVAKIA** (Bratislava) +421 2 54 77 4166; **SLOVENIA** (Ljubljana) +386 41 650 500; **SPAIN** (Barcelona) +34 93 227 98 33 or +34 93 227 54 00 bleep 190; **SWEDEN** (Stockholm) 112 or +46 8 33 12 31 (mon-fri 9.00-17.00); **UNITED KINGDOM** (London) 112 or 0845 4647 (NHS Direct).

**16.7 Recommended restrictions**

For professional and industrial installation and use only.