



MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 11 99 01, 11 99 02, 11 99 06, 11 99 07

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

SUPPLIER: METPREP LTD.
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PRODUCT: CONDUCTO-MOUNT & CONDUCTO-MOUNT 2 MOUNTING COMPOUND

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

2.1. Substances

Not applicable

2.2 Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Phenol, polymer with formaldehyde graphite	(CAS No) 9003-35-4 (CAS No) 7782-42-5 (EC no) 231-955-3	20 - 30 0 - 20	Not classified Not classified
methenamine, hexamethylenetetramine	(CAS No) 100-97-0 (EC no) 202-905-8 (EC index no) 612-101-00-2 (REACH-no) 01-2119474895-20	0 - 5	F; R11 R43
Phenol	(CAS No) 108-95-2 (EC no) 203-632-7 (EC index no) 604-001-00-2 (REACH-no) 01-2119471329-32	0 - 1	Muta.Cat.3; R68 T; R23/24/25 Xn; R48/20/21/22 C; R34 R10
ammonia	(CAS No) 7664-41-7 (EC no) 231-635-3 (EC index no) 007-001-00-5		T; R23 C; R34 N; R50

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenol, polymer with formaldehyde Glass fiber	(CAS No) 9003-35-4 (CAS No) 7782-42-5 (EC no) 231-955-3	20 -30 0 - 20	Not classified Not classified
methenamine, hexamethylenetetramine	(CAS No) 100-97-0 (EC no) 202-905-8 (EC index no) 612-101-00-2 (REACH-no) 01-2119474895-20	0 - 5	Flam. Sol. 2, H228 Skin Sens. 1, H317
Phenol	(CAS No) 108-95-2 (EC no) 203-632-7 (EC index no) 604-001-00-2 (REACH-no) 01-2119471329-32	0 - 1	Muta. 2, H341 Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE 2, H373 Skin Corr. 1B, H314 Flam. Gas 2, H221 Press. Gas
ammonia	(CAS No) 7664-41-7 (EC no) 231-635-3 (EC index no) 007-001-00-5		Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314



Aquatic Acute 1, H400

Full text of R-, H- and EUH-phrases: see section 16

SECTION 3 SUBSTANCE HAZARD IDENTIFICATION

3.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

3.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH phrases : EUH208 - Contains Mehenamine, hexamethylenetetramine. May produce an allergic reaction

3.3. Other hazards

Other hazards not contributing to the classification

: Phenol, formaldehyde and ammonia vapours may be released during moulding processes. Overexposures to these vapors may cause irritation to eyes, nose, throat and Skin. Phenol vapours are toxic by inhalation, by contact with skin and when swallowed. Allergic skin reactions may be experienced by sensitized individuals. Exposure to dust from machining operations may cause nose and throat irritation. The glass fiber component is considered a mechanical irritant and nuisance dust.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

- First –aid measures general : Remove the victim into fresh air. Immediately remove contaminated clothing or footwear.
- First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult doctor/medical service.
- First-aid measures after skin contact : Rinse immediately with plenty of water for 15 minutes. Soap may be used. # If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Take victim to a doctor if irritation persists.
- First-aid measures after ingestion : Immediately after ingestion: give lots of water to drink. Consult a doctor/medical service if you feel unwell.

4.2 Most Important symptoms and effects, both acute and delayed

- Symptoms / Injuries after inhalation : WHEN PROCESSED: AFTER INHALATION OF DUST: May cause Respiratory Irritation.
- Symptoms / Injuries after skin contact : The product does not cause sensitization by skin contact (mouse) (OECD 429, EC B.42; LLNA). The product does not cause skin irritation (OECD 439, EC B.4 -in vitro human skin irritation test). Allergic skin reactions and skin irritation may be experienced by sensitized individuals.
- Symptoms / Injuries after eye contact : ON CONTINUOUS / REPEATED EXPOSURE / CONTACT: Slight irritation.
- Symptoms / Injuries after ingestion : not known.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.



SECTION 5 FIRE FIGHTING MEASURES

· 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry chemical powder. Foam. Water spray.

· 5.2 Special hazards arising from the substance or mixture

Fire Hazard : Avoid breathing dust and vapours. Avoid contact with skin. Wear personal protective equipment. Spark – and explosionproof appliances and lighting equipment. Remove all sources of ignition. Use appropriate ventilation. On burning: release of carbon monoxide – carbon dioxide.

Explosion hazard : Risk of dust explosion.

Reactivity : Reacts on exposure to temperature rise.
Release of harmful gases/vapours.

· 5.3 Advice for fire-fighters

Protection during fire-fighting : Gloves, protective clothing. Heat/fire exposure: compressed air/oxygen Apparatus Dust production: dust mask with filter type P3.

Other information : Hazardous decomposition products may include: phenol, formaldehyde, Ammonia, carbon monoxide, hydrogen cyanide, particulate matter and Other organic compounds.

Personal protection (Emergency response) : Gloves – Protective clothing – Heat / fire exposure: compressed air/oxygen Apparatus – Dust production: dust mask with filter type P3.





SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures : Avoid breathing dust and vapours. Wear personal protective equipment Spark – and explosionproof appliances and lighting equipment. Remove All sources of ignition. Use appropriate ventilation. Avoid contact with skin,

6.1.1 For non-emergency Personnel

Protective equipment : Gloves, Protective clothing. Safety glasses.

Emergency procedures : Prevent dust cloud formation. Local exhaust ventilation should be provided.

6.1.2 For emergency responders

Protective equipment : Gloves, protective clothing. Dust production: dust make with filter type P3. Heat/fire exposure: compressed air/oxygen apparatus.

Emergency procedures : Stop release. Ventilate area.



6.2 Environmental precautions

No Specific information available

6.3 Methods and material for containment and cleaning up

For containment : No additional information available.

Methods for cleaning-up : Sweep up, shovel or vacuum. To minimise dust, vacuum cleaning is preferred.

6.4 Reference to other sections

No additional information available



SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling : Avoid breathing fumes from moulding or other processes involving hrst. Avoid breathing dusts from cutting, machining or deflashing operations. Avoid high concentrations of dust in the air and accumulation of dust on equipment. In order to reduce the possibility of skin irritation, direct contact should be avoided as much as possible by hygienic working conditions and the use of barrier creams. Provide good ventilation in process area to prevent formation of vapour. Provide local exhaust or general room ventilation to minimise exposure to dust. Take precautions against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Store at ambient temperature. Protect from moisture.

Storage temperature : 10 -30 °C

Storage area : Protect against frost/cold. Store at room temperature. Store in a dry area.

7.3 Specific end use(s)

No additional information available.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

General limit value for dust (respirable/inhalable): 3/10ppm

ammonia (7664-41-7)

EU	IOELV TWA (mg/m ³)	14 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	36 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
Belgium	Limit value (mg/m ³)	14 mg/m ³
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m ³)	mg/m ³
Belgium	Short time value (ppm)	50 ppm
France	VLE (mg/m ³)	14 mg/m ³
France	VLE (ppm)	20 ppm
France	VME (mg/m ³)	7 mg/m ³
France	VME (ppm)	10 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	14 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	25 ppm



Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	25 ppm
The Netherlands	MAC TGG 8H (mg/m ³)	14 mg/m ³
The Netherlands	MAC TGG 8H (ppm)	20 ppm
The Netherlands	MAC TGG 15MIN (mg/m ³)	36 mg/m ³
The Netherlands	MAC TGG 15MIN (ppm)	50 ppm
United Kingdom	WEL TWA (mg/m ³)	18 mg/m ³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m ³)	25 mg/m ³
United Kingdom	WEL STEL (ppm)	35 ppm

graphite (7782-42-5)

Belgium	Limit value (mg/m ³)	2 mg/m ³
France	VME (mg/m ³)	2 A
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	4 R/10 I

Coke (65996-77-2)

Belgium	Limit value (mg/m ³)	3 mg/m ³
France	VME (mg/m ³)	5 A/10 T
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	3 A/10 E
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	4 R/10 I

Phenol (108-95-2)

EU	IOELV TWA (mg/m ³)	8 mg/m ³
EU	IOELV TWA (ppm)	2 ppm
EU	IOELV STEL (mg/m ³)	16 mg/m ³
EU	IOELV STEL (ppm)	4 ppm
Belgium	Limit value (mg/m ³)	8 mg/m ³
Belgium	Limit value (ppm)	2 ppm
Belgium	Short time value (mg/m ³)	16 mg/m ³
Belgium	Short time value (ppm)	4 ppm
France	VLE (mg/m ³)	15,6 mg/m ³
France	VLE (ppm)	4 ppm
France	VME (mg/m ³)	7,8 mg/m ³
France	VME (ppm)	2 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	7,8 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	2 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5 ppm
The Netherlands	MAC TGG 8H (mg/m ³)	8 mg/m ³
The Netherlands	MAC TGG 8H (ppm)	2 ppm
United Kingdom	WEL TWA (ppm)	2 ppm

8.2 Exposure controls

- Appropriate engineering controls : Provide good ventilation (local exhaust) of the working area, safety showers and eye wash station near workplace.
- Personal protective equipment : Safety glasses, Gloves. Protective clothing. Dust production: dust mask with filter type P3.





Hand protection	: Protective gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Dust production: dust mask with filter type P3.
Environmental exposure controls	: No additional information available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granular powder.
Colour	: Black.
Odour	: Characteristic odour. Mild odour.
Odour threshold	: No data available
pH	: 7 - 9
Relative evaporation rate (butylacetate=1)	: No data available
Kst	: 195 bar m/s
Melting point	: No data available
Smoulder temperature	: 340 °C VDI 2263, Blatt 1,1.3
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: > 520 °C VDI 2263, Blatt 1,2.6
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,7 g/cm ³
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2 Other information

Minimum ignition energy	: 3 – 10mJ
Other properties	: Mixtures of fine dust and air can create an explosion hazard.

SECTION 10 STABILITY AND REACTIVITY PROPERTIES

10.1. Reactivity

Reacts on exposure to temperature rise. release of harmful gases/vapours.

10.2. Chemical stability

Stable under normal conditions.



10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Keep away from: strong acids and strong oxidants.

10.6. Hazardous decomposition products

AMMONIA. phenol. During fire situations, irritating and toxic gases and oxides of carbon may be generated. See section V for more information.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity : Not classified

ammonia (7664-41-7)

LC50 inhalation rat (mg/l) 1,4 mg/l/4h (Rat; Literature,Rat; Literature)

LC50 inhalation rat (ppm) 2000 ppm/4h (Rat; Literature,Rat; Literature)

Phenol (108-95-2)

LD50 oral rat 317 - 650 mg/kg (Rat)

LD50 dermal rat 669 mg/kg (Rat)

LD50 dermal rabbit 850 - 1400 mg/kg (Rabbit)

ATE (oral) 100,000 mg/kg bodyweight

ATE (dermal) 300,000 mg/kg bodyweight

ATE (gases) 700,000 ppmV/4h

ATE (vapours) 3,000 mg/l/4h

ATE (dust,mist) 0,500 mg/l/4h

methenamine, hexamethylenetetramine (100-97-0)

LD50 oral rat > 5000 mg/kg (Rat)

Skin corrosion/irritation : The product does not cause skin irritation (OECD 439, EC B.46 – in vitro human skin irritation test) pH: 7 - 9

Serious eye damage/irritation : Not classified
pH: 7 - 9

Respiratory or skin sensitisation : The product does not cause sensitization by skin contact (OECD 429, EC B.42; LLNA test, mouse)

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified



SECTION 12

ECOLOGICAL INFORMATION

12.1. Toxicity

ammonia (7664-41-7)

LC50 fishes 1	0,16 - 1,1 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	2,08 - 4,94 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	2,5 - 2,8 mg/l (Plankton)
LC50 fish 2	0,26 - 4,6 mg/l (96 h; Lepomis macrochirus)
TLM fish 1	8,2 mg/l (96 h; Pimephales promelas; Hard water)
TLM fish 2	2 - 2.5,96 h; Carassius auratus

methenamine, hexamethylenetetramine (100-97-0)

LC50 fishes 1	49800 mg/l (96 h; Pimephales promelas; MEASURED CONCENTRATION)
EC50 Daphnia 1	36000 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	3 g/l (336 h; Selenastrum capricornutum; GROWTH RATE)
LC50 fish 2	49000 mg/l (96 h; Cyprinodon variegatus; NOMINAL CONCENTRATION)
EC50 Daphnia 2	92,500 mg/l (96 h; Crustacea)
Threshold limit algae 1	1500 mg/l (336 h; Selenastrum capricornutum)

graphite (7782-42-5)

LC50 fishes 1	(STATIC SYSTEM)
LC50 fish 2	(FRESH WATER)
TLM fish 1	(FRESH WATER)

Coke (65996-77-2)

LC50 fishes 1	> 1000 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)

Phenol (108-95-2)

LC50 fishes 1	27,8 mg/l (96 h; Brachydanio rerio)
EC50 Daphnia 1	18 - 36 mg/l (48 h; Daphnia pulex)
LC50 fish 2	9,1 - 12,2 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	6,6 mg/l (48 h; Daphnia magna)
TLM fish 1	39,2 mg/l (96 h; Poecilia reticulata)
TLM fish 2	5,7 mg/l (96 h; Lepomis macrochirus)
Threshold limit other aquatic organisms 1	64 mg/l (Pseudomonas putida)



Threshold limit algae 1
Threshold limit algae 2

7,5 mg/l (192 h; Scenedesmus quadricauda)
4,6 mg/l (192 h; Microcystis aeruginosa)

12.2. Persistence and degradability **ammonia (7664-41-7)**

Persistence and degradability

Readily biodegradable in water. Forming sediments in water. Biodegradability in soil: no data available. Adsorbs into the soil. Ozonation in the air.

graphite (7782-42-5)

Persistence and degradability
Biochemical oxygen demand (BOD)
Chemical oxygen demand (COD)
ThOD
BOD (% of ThOD)

Biodegradability: not applicable.
Not applicable
Not applicable
Not applicable
Not applicable

Coke (65996-77-2)

Persistence and degradability
Biochemical oxygen demand (BOD)
Chemical oxygen demand (COD)
ThOD
BOD (% of ThOD)

Biodegradability: not applicable.
Not applicable
Not applicable
Not applicable
Not applicable

Phenol (108-95-2)

Persistence and degradability

Readily biodegradable in water. Photolysis in water. Readily biodegradable in the soil. Inhibits biodegradation processes in the soil. No (test) data on mobility of the substance available.
1,68 g O²/g substance
2,28 g O²/g substance
2,38 g O²/g substance
0,71 % ThOD

Biochemical oxygen demand (BOD)
Chemical oxygen demand (COD)
ThOD
BOD (% of ThOD)

12.3. Bioaccumulative potential **ammonia (7664-41-7)**

Log Pow
Bioaccumulative potential

-1,14 (Experimental value)
Low potential for bioaccumulation (Log Kow <4).

Phenol (108-95-2)

BCF fish 1
BCF fish 2
BCF other aquatic organisms 1
BCF other aquatic organisms 2
Log Pow

20 (Leuciscus idus)
1276 - 1496 (Pimephales promelas)
277 (Daphnia magna)
3,5 - 16 (Scenedesmus quadricauda)
1,47 (Experimental value; 30 °C, Experimental value; 30 °C)
Low potential for bioaccumulation (BCF < 500).

Bioaccumulative potential

methenamine, hexamethylenetetramine (100-97-0)

Log Pow
Bioaccumulative potential

-4,15 - -2,13
Bioaccumulation: not applicable.

graphite (7782-42-5)

Bioaccumulative potential

No bioaccumulation data available.

Coke (65996-77-2)

Bioaccumulative potential

Not bioaccumulative.



12.4. Mobility in soil

Phenol (108-95-2)

Surface tension 0,039 N/m (41 °C)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods	:	This material and its container must be disposed of in a safe way, and as per local legislation.
Waste treatment methods		
Waste disposal recommendations	:	In accordance with all local, state and federal regulations.
EURLW code	:	07 02 99 - wastes not otherwise specified

SECTION 14 TRANSPORT INFORMATION

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Not applicable

14.6.2. Transport by sea

Not applicable

14.6.3. Air transport

Not applicable

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

Not applicable

SECTION 15 REGULATORY INFORMATION

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

**SECTION 16****OTHER INFORMATION**Full text of R-, H- and EUH-phrases::

Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Flam. Gas 2	Flammable gases Category 2
Flam. Sol. 2	Flammable solids Category 2
Muta. 2	Germ cell mutagenicity Category 2
Press. Gas	Gases under pressure
Skin Corr. 1B	skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitisation Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H221	Flammable gas
H228	Flammable solid
H301	Toxic if swallowed
H311	Toxic in contact with skin Causes severe skin burns and eye damage
H314	
H317	May cause an allergic skin reaction
H330	Fatal if inhaled
H331	Toxic if inhaled
H341	Suspected of causing genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
R10	Flammable
R11	Highly flammable
R23	Toxic by inhalation
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R34	Causes burns
R43	May cause sensitisation by skin contact
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R50	Very toxic to aquatic organisms
R68	Possible risk of irreversible effects
C	Corrosive
F	Highly flammable
N	Dangerous for the environment
T	Toxic
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product