

**1. Identification of the Substance / Preparation and Company**

Product Name ZINGASOLV  
Code 12001 - 12005 - 12025 – 12200  
Product type Solvent  
Manufacturer ZINGAMETALL bvba  
Address Industriepark Veneco Rozenstraat 4 9810 Eke – Belgique  
Telephone 00 32 9 385 6881  
Fax 00 32 9 385 5869  
Emergency Tel. 00 32 70 245 245 (Anti-poison centre)

**2. Composition and Information on Ingredients**

Official name Solvent-naphtha (petroleum), light aromatic  
Chemical description Aromatic hydrocarbon  
CAS number 64742-95-6

Dangerous Components	CAS-No.	EC Hazard-Symbols	EC Risk-Phrases	Concentration
Mesitylene	108-67-8	Xi	R10 – R37	Ca. 10% (m/m)
1,2,4-Trimethylbenzene	95-63-6	Xn	R10 – R20 R36/37/38	Ca. 35% (m/m)
Propylbenzene	103-65-1	Xi	R10 – R37	Ca. 4% (m/m)

**3. Hazards Identification**

Human health hazards After swallowing followed by vomiting, the product can enter the lungs, which can cause chemical pneumonitis or suffocation.  
Safety hazards Flammable. In use, may form flammable/explosive vapour-air mixture. Electrostatic charges may be generated during handling.  
Environmental hazards Dangerous for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**4. First Aid Measures**

Symptoms and effects Inhalation may cause headache, dizziness, nausea, narcosis, irritation of mucous membranes. Skin contact may cause irritation, dryness of the skin. Eye contact may cause transitory pain.  
Inhalation Remove to fresh air.  
Skin Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.  
Eyes Flush eye with water.  
Ingestion Do not induce vomiting. Give nothing by mouth. OBTAIN MEDICAL ATTENTION IMMEDIATELY.  
Advice to physicians After swallowing followed by vomiting, the product can enter the lungs, which can cause chemical pneumonitis or suffocation. Dermatitis may result from prolonged or repeated exposure.



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## 5. Fire Fighting Measures

Specific hazards	Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be re-ignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Extinguishing media	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Water in a jet.
Protective equipment	Full protective clothing and self-contained breathing apparatus.
Other information	Keep adjacent containers cool by spraying with water.

## 6. Accidental Release Measures

Personal precautions	Avoid contact with skin and eyes. Do not breathe the vapours. Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Evacuate the area of all non essential personnel. Take precautionary measures against static discharge. Shut off leaks, if this is possible without personal risk.
Personal protection	Wear nitrile rubber gloves, gauntlet type, jacket and trousers - nitrile rubber, safety boots - rubber, knee length. Wear full face-piece respirator with organic vapour canister and built-in particulate filter NPF 400 (gas only). In a confined space, wear self-contained breathing apparatus open circuit type NPF 2000.
Environmental precautions	Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
Clean-up Methods:	
<i>Small spillage</i>	Absorb or contain liquid with sand, earth or spill control material. Shovel up and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum. Scrub contaminated surfaces with detergent solution. Retain washings as contaminated waste.
<i>Large spillage</i>	Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as for small spillage.
Other information	Risk of explosion. Inform the emergency services if liquid enters the surface water drains. Vapour may form an explosive mixture with air. See Section 13 for information on disposal.

## 7. Handling and Storage

Handling	Avoid prolonged or repeated contact with skin. Do not breathe vapour, spray, mists. Extinguish any naked flames. Remove ignition sources. Avoid sparks. Do not smoke. Take precautionary measures against static discharges. Earth all equipment. Do not empty into drains.
Handling temperature	Ambient.
Storage	Keep container tightly closed and in a well ventilated place. Keep away from direct sunlight and other sources of heat or ignition. Do not smoke in storage areas.
Storage temperatures	Ambient
Product transfer	Take precautionary measures against static discharge. Earth all equipment. Avoid splash filling. Do not use compressed air for filling, discharging or handling. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge. Refer to supplier for further product transfer instructions if required.  Recommended materials For containers or container linings, use mild steel, stainless steel. For container paints, use zinc silicate, epoxy resins.
Unsuitable materials	Avoid prolonged contact with natural butyl or nitrile rubbers.

## 8. Exposure Controls / Personal Protection

Occupational exposure standards	Aromatic hydrocarbons -	TLV (EH40/95) LV = 100 ppm LV = 4000 mg/m <sup>3</sup> STV = 700 ppm
	Trimethylbenzene (all isomers) -	LV/Belgium LV 25 PPM LV 125 mg/m <sup>3</sup>
Engineering control measures	Use only in well-ventilated areas.	
Respiratory protection	If risk of inhalation, wear half mask respirator with organic vapour cartridge and built-in particulate filter NPF 20 (gas only).	
Hand protection	Nitrile rubber gloves.	
Eye protection	Monogoggles	
Body protection	Standard issue work clothes. Safety shoes or boots - chemical resistant.	

## 9. Physical and Chemical Properties

Physical state	Liquid
Colour	Colourless
Odour	Aromatic
Boiling point	Typical 16 - 180 ° C (ASTM D-1078)
Flash point	Typical 47 ° C (IP 170)
Auto-ignition temperature	507° C (ASTM E-659)
Explosion/flammability limits in air	Lower = 0.8 % (v/v) upper : 6 % (v/v)
Vapour pressure	Typical 300 Pa at 20° C
Solubility in water	Insoluble
Density Typical	876 kg/m <sup>3</sup> at 15 ° C (ASTM D-4502)
Cinematic viscosity	Typical 0.9 mm <sup>2</sup> /s at 25° C (ASTM D-445)
Surface tension	Typical 29 mN/m at 20° C (ASTM D-971)
Electric Conductivity	8 pS/m at 20° C
Relative evaporation rate	0.2 (ASTM D 3539, nBuAc = 1)
Molecular weight	122 (weight average - Mw)
n-octanol/water partition coefficient	Log Pow : 3.7 to 4.5 [estimated value(s)]

## 10. Stability and Reactivity

Stability	Stable under normal use conditions.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	None known.
Hazardous decomposition products	None known.

## 11. Toxicological Information

Basis for assessment	The information given is based on product data and on data on the compounds and the toxicology of similar products.
<i>Acute Toxicity</i>	
Oral	Low toxicity LD 50 > 2000 mg/kg
Dermal	Low toxicity, LD 50 > 2000 mg/kg
Inhalation	Low toxicity, LC 50 : > 5 mg/l
Skin irritation	Slightly irritant, but not sufficient to trigger an EC label.
Eye irritation	Not irritating
Skin sensitisation	Not a skin sensitiser.
Repeated dose toxicity	Repeated exposure does not cause significant toxic effects.
Mutagenicity	Not expected to be mutagenic.
Development toxicity	May cause slight foetotoxicity at doses which are maternally toxic. Not expected to be a developmental toxicant.
Human effects	Prolonged / repeated contact may cause defatting of the skin, which can lead to dermatitis. Irritant to respiratory tract. After swallowing followed by vomiting, the product can enter the lungs, which can cause chemical pneumonitis or suffocation. High exposures can cause drowsiness and dizziness.

## 12. Ecological Information

Basis for assessment	Incomplete ecotoxicological data only are available for this product. The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.
Mobility	Disperses rapidly in air. Floats on water. Evaporates within a day from water or soil surfaces. Adsorbs to soil and is not mobile.
Persistence / degradability	Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air. Integrated environmental half-life expected to be < 1 day.
Bioaccumulation	Has the potential to bioaccumulate.
Acute toxicity - fish	
Toxic, 1 < LC/EC/IC 50 ≤ 10 mg/l	
Acute toxicity – fish	Toxic, 1 < LC/EC/IC 50 ≤ 10 mg/l
Acute toxicity – invertebrates	Toxic, 1 < LC/EC/IC 50 ≤ 10 mg/l
Acute toxicity – algae	Toxic, 1 < LC/EC/IC 50 ≤ 10 mg/l
Sewage treatment	Expected to be practically non toxic, LC/EC/IC 50 > 100 mg/l.
Other information	In view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.



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## 13. Disposal Considerations

Precautions	Refer to Section 7 before handling the product or containers.
Waste disposal	Recover or recycle if possible. Otherwise : Incineration.
Product disposal	Recover or recycle if possible. Otherwise : Incineration.
Container disposal	Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cur or weld uncleaned drums. Send to drum recoverer or metal reclaimer.
Local legislation	The recommendations given are considered appropriate for safe disposal. However, local regulations may be more stringent and these must be complied with.

## 14. Transport Information

### Road / Rail ADR/RID

Hazard symbol	Flammable
UN Number	1263
Proper shipping name	Paint related material. Special measure 640 E
Class ADR	3 III
Class IMO/IMDG	3 III - marine pollutant
Class IATA/ICAO	3 III
EmS	3-05
N° d'identification danger	30
<b>Maritime transport IMO</b>	

## 15. Regulatory Information

Contains :	Solvent naphtha (petroleum), light aromatic
EC symbols	(Xn) Harmful (N) Dangerous for the environment
EC Risk Phrases	(R10) Flammable (R37) : Irritating to respiratory system (R51/53) Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. (R65) Harmful : may cause lung damage if swallowed.
EC Safety Phrases	(S2) Keep out of reach of children. (S23) Do not breathe vapour. (S24) Avoid contact with skin. (S29) Do not empty into drains. (S46) If swallowed, seek medical advice immediately and show this container or label. (S61) Avoid release to the environment. Refer to special instructions/Safety data sheet.
MITI (Japan)	9 - 1694
AICS (Australia)	listed
DSL (Canada)	listed
EINECS (EC)	265-199-0
EC Annex I number	649-356-00-4
TSCA (USA)	listed
TCCL (Korea)	6-7
PICCS (Philippines)	listed
National legislation	Medical control ARAB/ RGPT, art. 124, § 1, 1°, pt. 1.26.1 (homologues of benzene)



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### 16. Other information

Recommended uses and restrictions                      See Technical data sheet for detailed information.

ZINGASOLV is ZINGAMETALL Bvba product. This information describes the aspects of health, safety and environment for this product, based on our current knowledge. This information is not construed as technical specification or as guarantee of the product.

The data on these sheets is merely indicative. They are the result of our knowledge and experience to the present day, and they come from sources which we consider trustworthy. The conditions or methods of handling, storage, use or elimination of the product cannot be controlled by us and are therefore outside our competence. For these and other reasons we decline all responsibility in the case of loss, damage, or costs that are caused by or that are linked in any way to the handling, storage, use or the elimination of the product. Any claim concerning deficiencies must be made, within three months upon reception of the goods, to either:

**MG Duff International Ltd. 1 Timberlaine Estate, Gravel Lane, Quarry Lane, Chichester, West Sussex. PO19 8PP**

Or directly to the manufacturing office at:

Zingametall, Rozenstraat 4, Industriepark Veneco, B-9810Eke, Belgium.

We reserve the right to change the formula if properties of the raw materials should differ. This data sheet replaces all former specimens.

SafetyDataZingasolvrevised3 1-7-07.doc	MG Duff International Ltd. Registered Number: 2621868                      Place of Registration: England Registered Office: 1 Timberlaine Estate, Gravel Lane, Quarry Lane, Chichester, West Sussex. PO19 8PP Tel: 00 44 [0] 1243 533336 Fax: 00 44 [0] 1243 533422 Email: <a href="mailto:zingard@mgduff.co.uk">zingard@mgduff.co.uk</a>	Issue: 3.00 Issued: 31/07/2007  Page 6 of 6
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