

Revision 2 Date Issued: 03/02/2014

1. Identification of the substance/preparation and company

Product Name: **Flowchem VE Accelerator**

Application: Accelerator for Flowchem VE resin systems.
Mixed product is applied by roller and/or spray.

Manufacturer:

Flowcrete SA (Pty) Ltd, 176 Voortrekker Street, Jacobs 4052

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2. Composition/information on constituents

Chemical Name	EINECS No.	CAS No.	% by weight	Symbols & Risk Phrases
Cobalt (II) 2-ethylhexanoate	205-250-6	136-52-7	35	Xi; R38. R43
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	229-934-9	6846-50-0	40	none
Petroleum naphtha	265-150-3	64742-48-9	25	Xn; R65.

See section 16 Additional information, for full text regarding symbols and Risk phrases.

3. Hazards Identification

*Irritating to skin. May cause sensitisation by skin contact.
Harmful : may cause lung damage if swallowed.*

4. First Aid measures

- General advice** : Remove any contaminated clothing immediately.
Symptomatic treatment is advised to the physician.
- Inhalation** : Remove affected person from exposure, keep them warm and at rest.
Obtain medical attention in cases of doubt or when symptoms persist..
- Skin contact** : Wash with soap and plenty of water or a suitable skin cleanser as soon as possible.
Seek medical advice if a rash develops and/or irritation persists.
Launder clothes before reuse.
- Eye Contact** : Rinse immediately and for as long as possible with plenty of water. Hold eyelids apart and carefully and thoroughly flush with plenty of water. Seek medical advice if irritation persists.
- Ingestion** : If the person is conscious, wash out mouth with water. Do not swallow mouth wash.
Do not induce vomiting. Seek medical advice.

5. Fire-fighting measures

- Suitable extinguishing media** : Carbon dioxide (CO₂), foam, dry powder or sand.
Water spray should be used for larger fires.
- Un-Suitable extinguishing media** : High volume water jet. Halones.
- Special exposure hazards** : In case of a fire and/or explosion do not breathe fumes.
- Hazardous decomposition / combustion products** : Not determined.

- Special protective equipment** : Wear self-contained breathing apparatus and protective suit.
- Additional information** : Cool closed containers with water spray.
Do not allow contaminated extinguishing water to enter the soil, drains, sewers or water courses.

6. Accidental release measures

- Personal precautions** : Use personal protective equipment as detailed in Section 8.
Ensure adequate ventilation. Avoid contact with skin.
- Environmental precautions** : Prevent further leakage or spillage and prevent entry into drains, sewers and water courses.
- It is an offence to discharge effluent down the drain without prior consent from the appropriate authority. Check where the drain chosen for disposal goes. If it goes to a watercourse, check that disposal of the spillage will comply with the Environmental Agency or SEPA consent. If it goes to the sewer, check the consent issued by the sewerage authority.
- If washing the spillage to drain will breach a consent condition, dispose of in another way. Make sure the disposal site is licensed to accept this type of waste.
- Methods for cleaning up** : Soak up with inert absorbent material (e.g. sand, sawdust).
Transfer into suitable containers.
Dispose in accordance with Section 13. Wash the area with plenty of water.

7. Handling and storage

- Handling** : Ensure adequate ventilation, provide exhaust ventilation in work area.
Do not mix directly with the Flowchem VE Curing Agent, add to the Flowchem VE Resin.
- If spraying the Flowchem VE when mixed, exhaust ventilation is required and all other non-essential personnel to be excluded from area. The air should be drawn away from the personnel handling the product.
- Use personal protective equipment as detailed in Section 8.
Handle and open container with care. Avoid skin and eye contact.
- Fire and explosion protection** : This product is used with Flowchem VE Resins and Curing Agents, follow the precautions for those :-
Use explosion protected equipment.
It is recommended to use electrical equipment of temperature group T3 – maximum permitted surface temperature of electrical equipment 200°C.
Keep away from sources of ignition – NO smoking in the vicinity.
- Storage** : Store in a dry, cool, well-ventilated place. Do not store with peroxides.
Keep only in the original container, tightly closed.
Maintain store between temperatures 5 - 25°C. Keep container upright to prevent leakage.

8. Exposure controls/personal protection

Workplace Exposure Limit (WEL) : Cobalt and cobalt compounds (as Co) – 0.1 mg/m³ 8 hour Time Weighted Average

Engineering measures to reduce exposure : Forced extraction is required, especially in confined areas and when spraying.

Personal protective equipment :

Respiratory protection : Required in insufficiently ventilated working areas (especially during mixing and always if sprayed). An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter respirator.

- Eye protection** : Goggles or full face mask.
- Hand protection** : Impermeable gloves (neoprene or synthetic rubber) .
Material can harden gloves and increase the risk of their splitting.
Check regularly for degradation and replace as necessary.
- Skin and body protection** : Protective suit and heavy duty work shoes.
- Protective measures** : Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.
Launder clothes before reuse.

9. Physical and chemical properties

Appearance	: Clear violet liquid.	Viscosity	: ~16.5 mPa.s at 20 °C
Odour	: faint	Relative Density	: ~0.96 at 20 °C
Boiling Point	: Not determined	Water solubility	: Partly miscible
Flashpoint	: 72 °C (closed cup)	Ignition temperature	: Not determined.
Explosive properties	: No.	Water solubility	: Immiscible
Melting point	: 10 °C	Solubility in other solvents	: Miscible in aromatic solvents, pure phthalates
Vapour pressure	: Not determined		

10. Stability and reactivity

- Stability** : No typical hazardous reactions known.
- Conditions to avoid** : Might react violently with peroxides.
It is not allowed to store or transport the product in the presence of peroxides.
- Materials to avoid** : Do not mix with peroxides.
- Hazardous decomposition products** : Not determined.

11. Toxicological information

- Acute oral toxicity** : Cobalt (II) 2-ethylhexanoate LD₅₀ Oral (rat) : > 2000 mg/kg
- Irritation** : Moderately irritating to skin.
- Sensitisation** : May cause sensitisation by skin contact. A sensitised individual may suffer an allergic eczema reaction every time they are in contact with this material.
- Carcinogenicity** : There is no evidence known to us that this material or its constituents are carcinogenic.
- Mutagenicity** : Ames test: Not mutagenic.
- Reproductive toxicity** : There is no evidence known to us that this material or its constituents are toxic for reproduction.

12. Ecological information

No experimental ecological data are available on the preparation as such.

13. Disposal considerations

- Unused Product/waste from cleaning etc.** : Dispose of in accordance with local and national regulations.
Do not empty into drains, sewers or water courses.
Use EC Waste Catalogue (EWC) code: 08 01 11

Contaminated packaging : Partially filled containers shall be disposed of as for the product above.

Well drained containers shall be disposed of as non-hazardous packaging waste. Use EWC Code 150102 for plastic, 150104 for metal.
Remove/invalidate the warning label.

14. Transport information

Not regulated for transport.

15. Regulatory information

Classification according to EEC directive:

Symbols:



Harmful

R-phrases

- R38** : Irritating to skin.
- R43** : May cause sensitisation by skin contact.
- R65** : Harmful: may cause lung damage if swallowed.

S-phrases :

- S23** : Do not breathe fumes.
- S24** : Avoid contact with skin.
- S26** : In case of contact with eyes, rinse immediately with plenty of water and soap.
- S50A** : Do not mix with organic peroxides.
- S62** : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Special provisions statement : None.

Hazardous component(s) which must be listed on the label : Cobalt (II) 2-ethylhexanoate, 6% Co, in aliphatic ester.

EC Directives: Dangerous Substances Directive, 67/548/EEC & adaptations.
Dangerous Preparations Directive, 1999/45/EC.
Safety Data Sheets Directive, 91/155/EEC and adaptations.

Statutory Instruments: Chemicals (Hazard Information & Packaging for Supply) Regs 2002.
Control of Substances Hazardous to Health Regs 2002.
Environmental Protection (Duty of Care) Regs. 1991.

Codes of Practice Waste Management. The Duty of Care.
Approved classification and labelling guide (Fifth edition). L131.
The compilation of safety data sheets (Third edition).

Guidance Notes Occupational Exposure Limits EH40
CHIP for Everyone HSG(108)

16. Other Information

This safety data sheet has been prepared in accordance with CHIP3. The text has changed in Sections 1, 8 and 13. The provision of Safety data sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals, Hazard Information and Packaging Regulations). This is in addition to the Health and Safety at Work Act 1974.

Users of our products should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

