

Chemical Hazard Classification

UN NO. 1378

GROUP 2

CLASS 4.2

SAFETY INFORMATION

EMERGENCY ACTION

(UN No. 1378 Class 4.2 Group II, 2 Y CEFIC Trem. Card TEC (R)-42 GO5)

FIRST AID

Drench with water. Remove splashed clothing. In the event of an eye splash the eye should be immediately thoroughly flushed with water, followed by medical inspection to ensure that all catalyst particles have been removed.

If an skin or eye irritation persists or arises later, seek medical attention. **If accidentally swallowed seek immediate medical attention.**

FIRE HAZARD

Fire *Spontaneously Combustible Substance but only when allowed to dry.*

If allowed to dry in air the nickel is rapidly oxidised to red head providing a source of ignition to neighbouring combustible material or flammable vapours. Small amounts of hydrogen may be evolved from the catalyst in transit and precautions should be taken to avoid ignition. Reacts with acids vigorously, giving off hydrogen. Reacts violently with oxidising agents.

Used catalyst also presents an ignition hazard being mildly pyrophoric on drying in air. It must therefore be treated with the same care as new material.

Personnel

Irritates eyes and respiratory tract. Contact with skin, eyes and clothing should be avoided - burns the skin on drying. Brush off clothing with a wet brush.

Always have water available at point of use.

Harmful if taken internally. May cause dermatitis on prolonged skin contact.

The product used correctly under liquids does not have any harmful effects. Since the rapidly increasing information on the toxicological properties of chemicals, together with refined analytical techniques are continually contributing to our overall knowledge of our products we recommend that in cases of doubt you do not hesitate to contact us.

STORAGE

Store at normal temperature away from oxidising agents, acids, sparks and other sources of heat or ignition. Material is supplied in metal drums containing catalyst under an equal weight of water. The drums conform to UN Packaging Type Code Ref. 1A4. In case of fire use water spray, CO₂ extinguisher or sand. Use spark-proof equipment. NO SMOKING.

Face shield or enclosed goggles, impermeable gloves, plastic or rubber boots and protective clothing should be worn. Handling operations such as replacement of water with organic solvent or feed stock should be carried out in a safe place remote from point of use and away from flammables, oxidising agents, acids, sources of heat, spark or ignition. Any spillages should be attended to as below. Strict personal hygiene, no eating, drinking in work area. NO SMOKING.

SPILLAGE

No smoking! A damaged drum should be placed under water in a larger drum until experienced personnel are available to handle it. If this is not possible, remove the drum to a suitably safe spot, eg. clear concrete area away from flammables, oxidising agents, acids, sources of heat, sparks or ignition. Large amounts of catalyst spilled should be moistened immediately if dry and then scooped from the floor and returned into water in a suitable vessel ensuring that it is not allowed to dry. Residual amounts can be rendered harmless by treatment with 5% aqueous sodium hypochlorite, if compatible with other spilled materials present. Nickel is on the 'Grey List' of EEC Directive 76/464 on Control of Pollution and is subject to UK Control of Pollution Act (Water) and local requirements.

PACKAGING

Catalysts are supplied in mild steel drums containing 20 kg of catalyst under water. Alternative packaging will be considered upon request.

SPENT CATALYST

Universal Chemicals will be pleased to discuss the removal and disposal of spent catalyst, on request.