Safety Data Sheet

EC-XRC-VHS

1. Identification of the Preparation and of the Company.

Product Name: **Extra Rapid VHS Catalyst** **Part No. EC-XRC-VHS**

Use of the Preparation: Catalyst

Supplier:

The Trade Group Ltd.
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2. Hazards Identification

- Xn - HARMFUL
- Harmful by inhalation, in contact with skin and if swallowed.
- May cause sensitization by inhalation and skin contact.
- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- FLAMMABLE.

3. Composite / Information on Ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EC and amendments.
For the hazards of the preparation, see Section 2.

SUBSTANCES % by Wt in the product	SYMBOL and R(*) phrases of the pure substances	CAS number	EINECS / ELINCS
TOSYL-ISOCYANATE 0.1 - < 0.2 %	Xn R36/37/38,R42,R14	4083-64-1	223-810-8
PROPYLBENZENE 0.1 - < 0.2 %	Xn N R65,R37,R51/53,R10	103-65-1	203-132-9
CUMENE 0.1 - < 0.2 %	Xn N R65,R37,R51/53,R10	98-82-8	202-704-5
MESITYLENE 0.5 - < 1 %	Xi N R37,R51/53,R10	108-67-8	203-604-4
1;2;4-TRIMETHYLBENZENE 2 - < 3 %	Xn N R20,R36/37/38,R51/53,R10	95-63-6	202-436-9
XYLENE (MIXTURE OF ISOMERS) 3 - < 5 %	Xn R20/21,R38,R10	1330-20-7	215-535-7
SOLVENT NAPHTHA (PETROLEUM); LIGHT AROMATIC 3 - < 5 %	Xn R65	64742-95-6	265-199-0
N-BUTYL ACETATE 3 - < 5 %	R66,R67,R10	123-86-4	204-658-1
ALIPHATIC POLYISOCYANATE 5 - < 7 %	Xn R42	53880-05-0	
HEPTAN-2-ONE 5 - < 7 %	Xn R20/22,R10	110-43-0	203-767-1
4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE 7 - < 10 %	Xn F R20,R36/37,R66,R11	108-10-1	203-550-1
5-METHYLHEXAN-2-ONE / METHYLISOAMYL KETONE 10 - < 12.5 %	Xn R20,R10	110-12-3	203-737-8
HEXANE-1;6-DI-ISOCYANATE; HOMOPOLYMER 40 - < 50 %	Xn R42/43	28182-81-2	500-060-2

(*) See full text of phrases under Section 16.

4. First Aid Measures

General :
In all cases of doubt or when symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

Inhalation :
Remove to fresh air, keep patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

Eye contact :
Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical advice.

Skin contact :
Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use solvents or thinners.

Ingestion :
If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. Fire-Fighting Measures

Extinguishing media :

- Recommended: universal resistant foam, CO2, powder.
- Not to be used: water jet.

Recommendations :

- Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.
- Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.
- Do not weld, expose to extreme heat or ignition sources, empty containers which have contained flammable products.
- Do not allow run-off from fire fighting to enter drains or water courses.

6. Accidental Release Measures

- Exclude sources of ignition and ventilate the area. Avoid breathing vapours by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.
- Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container.
- The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume) : water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated (d : 0,880) ammonia solution (5 parts). A non flammable alternative is sodium carbonate (5 parts), water (95 parts). Add the same decontaminant to the remnants and allow to stand for several days in non-sealed container. When no further reaction occurs, close the container and dispose of in accordance with local waste regulations (see section 13). Do not allow to enter drains or watercourses.
- If the product contaminates lakes, rivers or sewers, inform water authorities in accordance with local regulations.

7. Handling & Storage

7.1 Handling
Manual Handling of Loads: Council Directive 90/269/EEC and the Manual Handling Operations Regulations may apply to the handling of certain paint products.

- Smoking, eating and drinking should be prohibited during handling.
- Keep container tighly closed. Any containers which are open should be carefully resealed.
- Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.
- An eye wash station and safety shower should be in close proximity within the area of use.

Packaging materials :

- Recommended : keep preferably in original container.
- Avoid :
  * Those sensitive to solvents

- Handle and open containers with care to avoid sudden ejections. Never use pressure to empty : container is not a pressure vessel. Clean or discard contaminated clothing and shoes.
- Preparation may charge electrostatically : always use earthing leads when transferring between containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.
- Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air, and avoid vapour concentration higher than the Occupational Exposure Limits.
- Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools should be used.
- Wear appropriate respiratory equipment when paint spraying, even outdoors. In all cases when working in a confined area or spraybooth, or where ventilation is unlikely to be sufficient to control particulates and solvent vapour, operators should wear a compressed airfed respirator during the spraying process.
- Precautions should be taken to minimize exposure to atmospheric humidity or water : CO2 will be formed, which in closed containers can result in increased pressure. Care should be taken when reopening.

The accumulation of dry overspray, contaminated rags, etc. may result in spontaneous combustion. Good housekeeping standards, the regular maintenance of spray booth filters and the regular and safe removal of waste materials will minimise the risk.

7.2 Storage

Observe label precautions. Store between 0 and 35°C in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. Store in accordance with The Dangerous Substances and Explosive Atmospheres Regulations 2002.

8. Exposure Controls / Personal Protection

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which the preparation is used.

8.1 Engineering measures

Avoid the inhalation of vapour, spray mist and particulates. This should be achieved by the provision of local exhaust ventilation and good general extraction to keep air-borne concentration below the Occupational Exposure Limits (OEL). If these are not sufficient to comply with OEL, suitable respiratory protection must be worn.

Airfed protective respiratory equipment must be worn by spray operator even when good ventilation is provided.

8.2 Exposure limits

9. Physical and Chemical Properties

	----- Workplace Exposure limit (.)--------				
Substances	8-hr limit		15-minute limit		Comments
	ppm	mg/m3	ppm	mg/m3	
ALIPHATIC POLYISOCYANATE	NCO	0.02	-	0.07	Sen
HEXANE-1;6-DI-ISOCYANATE; HOMOPOLYMER	NCO	0.02	-	0.07	Sen
4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	50	208	100	416	Sk
HEPTAN-2-ONE	50	237	100	475	Sk
N-BUTYL ACETATE	150	724	200	966	
XYLENE (MIXTURE OF ISOMERS)	50	220	100	441	Sk
MESITYLENE	25	125	-	-	
TOSYL-ISOCYANATE	NCO	0.02	-	0.07	Sen
1;2;4-TRIMETHYLBENZENE	25	125	-	-	
5-METHYLHEXAN-2-ONE / METHYLISOAMYL KETONE	20	95	100	475	Sk
CUMENE	25	125	50	250	Sk

(.) : See Guidance Note EH 40, Workplace exposure limits
Carc : Capable of causing cancer
Sk : Can be absorbed through skin
Sen : Capable of causing occupational asthma
RD : Respirable dust
- : Not estimated

8.3 Personal protection
All Personal Protective Equipment, including Respiratory Protective Equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

Respiratory protection :
By spraying : airfed respirator
By operations other than spraying : in well ventilated areas, airfed respirators could be replaced by a combination of charcoal filter and particulate filter mask according to the type of contaminants, following official and manufacturer's instructions including proper fitting.

The European Group of Vehicle Refinish Manufacturers united in CEPE recommends the use of fresh-air masks as the best personal protection during spraying of any car refinish paint.

Hand protection :
Polyethylene or polypropylene gloves with textile under gloves are required. PVC or rubber gloves are not recommended.

Eye protection :
Use safety glasses to protect against splashes.

Skin protection :
Personnel should wear protective clothing made of antistatic and fire resistant fibres. All parts of the body should be washed after contact.
Use good hygiene and industrial practices, keeping working clothes clean.

All the above precautions also apply to dry sanding and thermal decomposition, eg welding or flame cutting of the dried product, which will give rise to dust and/or fumes.
Steps must be taken to ensure that persons nearby who may be unconnected with the spraying, sanding or hot-work operations, are not affected.

9. Physical and Chemical Properties

- Physical state at 20°C : Liquid
- Flash point : 32°C =< ~ < 35°C Method : ISO 3679
- Viscosity : < 30 secs Method : ISO 2431 (6mm)
- Specific gravity at 20°C : 1.0 g/cm3 Method : ISO 2811
- Vapour density : > air
- Lower explosion limit (vol %) : 0.7 (SOLVENT NAPHTHA (PETROLEUM); LIGHT AROMATIC)
- Upper explosion limit (vol %) : 8.2 (5-METHYLHEXAN-2-ONE / METHYLISOAMYL KETONE)
- Miscibility in water at 20°C : not miscible
- pH : not applicable
- Vapour pressure at 20°C : 5 mm Hg

10. Stability and Reactivity

Stable under recommended storage and handling conditions (see section 7).
In case of combustion, may produce hazardous decomposition products such as :

- Carbon monoxide

Exothermic reactions MAY ALSO occur with amines and alcohols. The preparation reacts slowly with water resulting in evolution of CO2 which produces a risk of bursting of closed containers.

11. Toxicology Information

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 3 and 15 for details.

Exposure to component solvents vapours at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may

subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

12. Ecological information

There is no data available on the preparation itself.
The product should not be allowed to enter drains or water courses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 3 and 15 fordetails.

13. Disposal Considerations

The provisions of Council Directive 91/689/EEC and subsequent Amendments and Decisions apply to wastes
from the product as supplied.

EWC- Code : 08 01 11
Hazardous Properties :
H3-B Flammable
H5 Harmful

It is recommended that the container is emptied of as much material as possible prior to recycling or disposal of the container.

Deactivate the isocyanate component in the container with decontaminant solution (see Section 6) before recycling or disposal of the container.
Store waste in accordance with The Dangerous Substances and Explosive Atmospheres Regulations 2002.
Do not allow into drains or water courses.
Waste and emptied containers must be disposed in accordance with :

- Environment Protection Act
- Control of Pollution Act 1974,
- Special Waste Regulations 1996,

They should be recycled or disposed of through a licenced waste management facility.

Wastes derived from the product may be subject to the classification requirements of the Directive and the Special Waste Regulations.

14. Transport Information

UN number : UN1263
PROPER SHIPPING NAME : Paint
N.O.S. Technical Name : None
Class : 3
Subsidiary Class(es): None
Packing group : III

ADR/RID
TREMCARD: 30GFI-III

IMDG
EMS No.: F-E~S-E
ICAO/IATA
Passenger Air Packing Instruction : 309
Passenger Air Max Quantity/Package : 60 Liters
Cargo Air Packing Instruction : 310
Cargo Air Max Quantity/Package : 220 Liters

15. Regulatory Information

Label
According to the Directive (1999/45/EC), relating to the classification packaging and labelling of dangerous substances and preparations, the product is labelled as follows :

Xn – HARMFUL

- CONTAINS : : ALIPHATIC POLYISOCYANATE, HEXANE-1;6-DI-ISOCYANATE; HOMOPOLYMER

Contains : 'TOSYL-ISOCYANATE'. May produce an allergic reaction.

- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R42/43 May cause sensitization by inhalation and skin contact.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R10 FLAMMABLE.

- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S23+S38 Do not breathe vapour / spray. In case of insufficient ventilation, wear suitable respiratory equipment.
- S36/37 Wear suitable protective clothing and gloves.
- S57 Use appropriate container to avoid environmental contamination.
- P91 Contains isocyanates. See information supplied by the manufacturer.
  This information is provided by the present Safety Data Sheet.

- The provisions of the Health and Safety at Work Act, the Control of Substances Hazardous to Health Regulations and The Dangerous Substances and Explosive Atmospheres Regulations apply to the use of this product at work.

16. Other Information

Full text of R phrases with N° appearing in Section 3:

- R36/37/38 Irritating to eyes, respiratory system and skin.
- R42 May cause sensitization by inhalation.
- R14 Reacts violently with water.
- R65 Harmful: may cause lung damage if swallowed.
- R37 Irritating to respiratory system.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R10 FLAMMABLE.
- R20 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- R38 Irritating to skin.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.
- R20/22 Harmful by inhalation and if swallowed.
- R36/37 Irritating to eyes and respiratory system.
- R11 HIGHLY FLAMMABLE.
- R42/43 May cause sensitization by inhalation and skin contact.

The information contained in this data sheet is based on present scientific and technical knowledge. AS OF : 22-6-2007
The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by The Trade Group , and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

- The information contained in this Safety Data Sheet is provided in accordance with the requirements of Regulation (EC) No 1907/2006 and the Chemicals (Hazard Information and Packaging) Regulations.

END OF SAFETY DATA SHEET