



Product Number: 104010412

SAFETY DATA SHEET
according to Regulation (EC) No 1907/2006

Date of issue: 1/9/2010

FOR PROFESSIONAL USE ONLY

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

1.1. Identification of the preparation:

Product Number: 104010412

Product Name: S 412 HS Hardener Normal

1.2. Use of the preparation:

- Hardener

1.3. Company Identification:

Manufactured by:

SERANO BAGHDASARIAN N.SYRAN

6, SKRA STR. 55236, PANORAMA – THESSALONIKI (GR)

Tel: +30 2310341776

- e-mail address : info@bsrefinish.com

1.4. Emergency telephone:

- Company emergency telephone number: +30 6972297067

2. HAZARDS IDENTIFICATION

- Xn - HARMFUL

- Harmful by inhalation, in contact with skin and if swallowed.

- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- FLAMMABLE.

3. COMPOSITION / 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	R(*) phrases of the pure substances	CAS number	EINECS / ELINCS
SOLVENT NAPHTHA (PETROLEUM); LIGHT AROMATIC 0.5 - < 2.5 %	Xn	R65	64742-47-8	265-199-0
Toluene 5 - < 7.5%	Xn F	R11,R20,R48,R63,R65,R67	108-88-3	203-625-9
XYLENE (MIXTURE OF ISOMERS) 12.5 - < 15 %	Xn	R20/21,R38,R10	1330-20-7	215-535-7
GLYCOL ETHER ACETATES 12.5 - < 15 %	Xi	R10,R36	108-65-6	203-603-9
N-BUTYL ACETATE 5 - < 7.5 %		R66,R67,R10	123-86-4	204-658-1
HEXANE-1;6-DI-ISOCYANATE; HOMOPOLYMER 45 - < 55 %	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 and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

- Clean preferably with a detergent ; avoid use of solvents.

- If the product contaminates lakes, rivers or sewers, inform water authorities in accordance with local regulations.

7. HANDLING AND 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 tightly 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 electrostatic ally: always use earthing leads when transferring between containers.



Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

- Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor 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 has 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 spray booth, or where ventilation is unlikely to be sufficient to control particulates and solvent vapor, operators should wear a compressed air fed respirator during the spraying process. 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 minimize 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

8.1 Exposure limit values

Substances	8-hr limit		Workplace Exposure limit 15-minute limit		Comments
	ppm	mg/m3	ppm	mg/m3	
HEXANE-1;6-DI-ISOCYANATE; HOMOPOLYMER	NCO	0.02	-	0.07	Sen
N-BUTYL ACETATE	150	724	200	966	
XYLENE	50	220	100	441	Sk
TOLUENE	50	192	100	384	
GLYCOL ETHER ACETATES	20	-	50	-	SK
SOLVENT NAPHTHA	25	125	-	-	

(.) : 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

8.2 Exposure controls

Avoid the inhalation of vapor, 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.

8.2.1. Occupational exposure controls

(a) Respiratory 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. Appropriate certified respiratory protective equipment should be selected according to the type of contaminants, following 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.

(b) Hand Protection:

For prolonged or repeated contact, we recommend gloves type : polyvinyl alcohol, nitrile rubber, latex rubber. Barrier creams may help to protect exposed areas of the skin. However, they should not be applied once exposure has occurred.

(c) Eye Protection

Use safety glasses to protect against splashes.

(d) Skin Protection

Personnel should wear protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact with the product.



Product Number: 104010412

Use good hygiene and industrial practices, keeping working clothes clean.

8.2.2 Environmental exposure controls

All the above precautions also apply to dry sanding and thermal decomposition, e.g. 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

9.1 General information

- Physical state at 20°C: Liquid

Odor: Organic solvent

Harmful: possible risk of irreversible effects through inhalation.

9.2. Important health, safety and environmental information

- Flash point: 23°C =< ~ < 32°C Method: ISO 3679

- Viscosity: 30 seconds Method: ISO 2431 (6mm)

- Specific gravity at 20°C: 1.0 g/cm³ Method: ISO 2811

- Vapor density : > air

- Lower explosion limit (volume %): 0.7 (SOLVENT NAPHTHA (PETROLEUM); LIGHT AROMATIC)

- Upper explosion limit (volume %): 13 XYLENES

- Miscibility in water at 20°C: not miscible

- PH: not applicable

- Vapor pressure at 20°C: 5 mm Hg

9.3. Other information

There are no data available on the preparation itself.

10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage and handling conditions (see section 7).

10.1 Conditions to avoid

Keep away from sources of ignition. Protect from sunlight and do not expose to temperatures exceeding 35°C.

10.2 Materials to avoid

Keep away from reducing agents, acids, alkalies.

10.3 Hazardous decomposition products

In case of combustion, may produce hazardous decomposition products such as:

- Carbon monoxide

11. TOXICOLOGICAL 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. In the case of BUTYLGLYCOL ACETATE / 2-BUTOXYETHYL ACETATE there is evidence of skin penetration and possible harmful effects in the blood. Exposure to component solvents vapors 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 for details.

13. DISPOSAL CONSIDERATIONS



Product Number: 104010412

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.

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 licensed 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

Tunnel Code: D/E

IMDG

EMS No.: F-E~S-E

Marine Pollutant: None

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 labeling of dangerous substances and preparations, the product is labeled as follows:



- Xn – HARMFUL
- CONTAINS : ALIPHATIC POLYISOCYANATE, HEXANE-1;6-DI-ISOCYANATE; HOMOPOLYMER
Contains : 'TOSYL-ISOCYANATE'. May produce an allergic reaction.
- R20/21 Harmful by inhalation, in contact with skin and if swallowed.
- R42/43 May cause sensitization by inhalation and skin contact.
- 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 vapor / spray. In case of insufficient ventilation, wear suitable respiratory equipment.
- S36/37 Wear suitable protective clothing and gloves.
- 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 No appearing in Section 3:

- 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.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R42 May cause sensitization by inhalation.
- R14 Reacts violently with water.
- R20 Harmful by inhalation.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.
- R36/37 Irritating to eyes and respiratory system.
- R11 HIGHLY FLAMMABLE.
- R20/21 Harmful by inhalation and in contact with skin.
- 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 : 9-7-2009 The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, 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*******