SAFETY DATA SHEET

SECTION 1: Identification: Product identifier and chemical identity

1.1. Product Identifier

Product name **: Valuethane EPDT HS RAL 7001**
Product form : Mixture
Proper Shipping Name : Resin Solution, Flammable

1.2. Recommended uses and restrictions

Recommended use : Paint
Restrictions on use : The product is only for industrial and/or professional use, not for any private consumer use.

1.3. Supplier information

Manufacturer Name : NIPPON PAINT INDOKOTE INDUSTRIES PVT. LTD.
Manufacturer Address : Plot no. 160, sector 3, HSIDC growth Centre, IMT Bawal, Haryana 123501
Telephone Number : +91 9015400200
Email Address : catalyst@nipponpaint.co.in

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable Liquid Category 4	: H227
Acute Toxicity (Dermal), Category 5	: H313
Skin Corrosion/Irritation Category 2	: H315
Serious eye damage/eye irritation Category 2	: H319
Toxic to Reproduction Category 2	: H361
Acute Aquatic Toxicity, Category 3	: H402
Chronic Hazard to Aquatic Environment, Category 3	: H412
Specific Target Organ Toxicity (Repeated Exposure) Category 2	: H373

2.2. Label elements

Hazard pictograms (GHS-AU) :



Signal word (GHS-AU) : WARNING
Hazard statements (GHS-AU) : H227 - Combustible liquid
: H313 - May be harmful in contact with skin
: H315 - Causes skin irritation
: H319 - Causes serious eye irritation
: H361 - Suspected of damaging fertility or the unborn child
: H373 - May cause damage to organs through prolonged or repeated exposure
: H401 – Toxic to aquatic life
: H412 - Harmful to aquatic life with long lasting effects

	: H226 - Flammable liquid and vapor
Precautionary statements (GHS-AU)	: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
	: P260 - Do not breathe dust/fume/gas/mist/vapors/spray
	: P264 - Wash hands, forearms, and face thoroughly after handling
	: P270 - Do not eat, drink, or smoke when using this product
	: P273 - Avoid release to the environment
	: P280 - Wear protective gloves/protective clothing/eye protection/face protection
	: P314 - Get medical advice/attention if you feel unwell
	: P321 - Specific treatment. (If immediate specific measures are required.)
	: P330 – Rinse Mouth
Response statements (GHS-AU)	: P302+P352 If ON SKIN: Wash with plenty of water.
	: P304+P312 - If INHALED: Call a POISON CENTER/ doctor, if you feel unwell
	: P305+P351+P338 - If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	: P308+P311 - If exposed or concerned: Get medical advice/attention
	: P332+P313 – If skin irritation occurs: Get medical advice/attention
	: P337+P313 - If eye irritation persists: Get medical advice/attention
	: P337+P313 - If eye irritation persists: Get medical advice/attention
	: P362+P364 - Take off contaminated clothing and wash it before reuse
	: P370+P378 - In case of fire: Use appropriate media for extinction
Storage (GHS-AU)	: P405 - Store locked up
	: Do not expose at temperature exceeding 40°C
	: P403+P235 - Store in a well-ventilated place. Keep cool
Disposal (GHS-AU)	: P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on Ingredients

Name	CAS No	%	Classification regulation (Regulation (EC) No
Bisphenol A based Epoxy Resin	25036-25-3	21-28%	607-537-5
Xylene	1330-20-7	05-08%	215-535-7)
n-Butanol	71-36-3	02-05%	200-751-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: First Aid Measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned: Get medical advice/attention. Call a POISON CENTER or a doctor if you feel unwell.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing; If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention if adverse health effects persist or are severe. If necessary, call a POISON CENTER or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to Do Continue rinsing; In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; remove contact lenses, if present and easy to do. Continue rinsing, get immediate medical advice/attention.

First-aid measures after ingestion : Wash out mouth with water. Remove victim Call a POISON CENTER or a doctor if you feel unwell. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be let low so that vomit does not enter the lungs. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

4.2. Potential acute health effects

Eye Contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness
Skin Contact	: Causes skin irritation
Ingestion	: Can cause central nervous system (CNS) depression.

4.3. Indication of any immediate medical attention and special treatment needed

Other medical advice or treatment	: Treat symptomatically.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	: Use dry chemicals. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use water jet

5.2. Special Hazards arising from the substance or mixture

Fire hazard	: In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Thermal decomposition products	: Decomposition products may be hazardous to health.

5.3. Special protective equipment and precautions for fire-fighters

Protective actions for firefighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate

Respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information, Refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public.

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid breathing dust/fume/gas/mist/vapors/spray Avoid contact with skin and eyes.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store In unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters - exposure standards

Engineering Measures : Prevent vapor build up by providing adequate ventilation during and after use. An eye wash facility should be readily available. Facilities storing or utilizing this material should be equipped with an eye wash Facility and a safety shower.

Exposure limit

Ingredient Name	ACCGIH TWA
n-Butanol	20 ppm
Mix-Xylene	100 ppm

Personal protection:

Respiratory protection : Wear NIOSH-Approved appropriate equipment.

Hand protection : Wear impervious gloves.

Eye Protection : Wear chemical splash goggles and face shield when eye and face Contact is possible due to splashing or spraying of material.

Skin protection : Wear chemical resistant clothing such as gloves, apron, boots or Whole bodysuits made from neoprene, as appropriate.

Environmental exposure control : Do NOT let this product enter the environment.

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the workstation.

8.4. Personal protective equipment

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should always be worn when handling chemical products if a risk assessment indicates this is necessary.

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dust. If contact is possible, the following protection should be worn unless the assessment indicates a higher degree of protection chemical splash goggles.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots, and gloves.
Other Skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task and risks involved and approved by a specialist before handling this product.
Respiratory Protection	: Use a properly fitted, air-purifying, or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

SECTION 9: Physical and chemical properties

Physical state	: Viscous Liquid
Color	: RAL 7001
Odor	: Typical Solvent
Boiling point (range)	: NA
Flash point	: 30°C
Lower explosive limit	: 1.1
Vapor pressure	: NA
Specific density	: 1.75 ± 0.05 gm/cm3
Vapor density	: Heavier than Air
Solubility in water	: Not Soluble

SECTION 10: Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid heating temperatures above 30°C. Heat. No flames, no sparks. Eliminate all sources of ignition.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be Produced.

SECTION 11: Toxicological information

LD50(oral, rat)	3,091 mg/Kg
LD50(dermal, rabbit)	5,475 mg/Kg
LD50(inhale, rat)	15.07 mg/L

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious skin irritation
Respiratory or skin sensitization : No data
Germ cell mutagenicity : No data
Carcinogenicity : No data
Reproductive toxicity : No data
STOT-single exposure : No data
STOT-repeated exposure : No data
Aspiration hazard : No data

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request.

12.1. Eco toxicity

Crustacean : L(E)C 50 >100 mg/L
Fish : L(E)C 50 >100 mg/L Epoxy resin
Algae : L(E)C 50 >100 mg/L

12.2. Mobility in soil

No data available

12.3. Other adverse effects

Ozone : No data available
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

Waste treatment methods : Avoid release to the environment. Dispose of contents/container to authorized companies' in accordance with local/regional/national/international regulations. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all

authorities with jurisdiction. This material and its container must be disposed of in a safe way. Care should be taken when emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1. UN number

UN/ID No	: 1263
Class	: 3
UN Packaging Group	: III

14.2. Proper Shipping Name – Addition

Epoxy Based Paint

14.3. Transport hazard class (es)

ADG

Transport hazard class (es) (ADG)	: 3

IMDG

Transport hazard class (es) (IMDG)	: 3

IATA

Transport hazard class (es) (IATA)	: 3

14.4. Packing group

Packing group (ADG)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III

14.5. Environmental hazards

Marine pollutant	: No

14.6. Special precautions for user

Specific storage requirement	: Storage Temperature below 40°C

14.7. Additional information

Other information	: No supplementary information available
Transport by road and rail	: Not applicable
Transport by sea	: The marine pollutant mark is not required when transported in size.
Air transport	: The environment hazardous substance mark may appear if required by other transportation regulations.

14.8. Hazchem or Emergency Action Code

Hazchemcode : 3YE

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. International agreements : No data available

SECTION 16: Any other relevant information

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Key to abbreviations

ATE : Acute Toxicity Estimate
BCF : Biocon Centration Factor
GHS : Globally Harmonized System of Classification and Labelling of Chemicals
IATA : International Air Transport Association
IMDG : International Maritime Dangerous Goods

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the sustainability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation, always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continues development. It is the user's responsibility to verify that this data sheet is current prior to using the product.