

## **SAFETY DATA SHEET**

SDS Number: SDS-70072 Version No: 003

Revision Date/Version No:14-03-2017 /3/2.1.1

# 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Name: EXCEL 100 REDUCER

Intended Use: Thinner for Paint

Manufacturer: Nippon Paint (S) Co. Pte Ltd

No. 1 First Lok Yang Road Jurong Singapore 629728

Emergency Phone Number: (65) 6 265 5355 Fax Numbers: (65) 6 264 1603

## 2. HAZARDS IDENTIFICATION

#### **GHS Classification:**

Physical Hazard

Flammable Hazard Category 3

Health Hazard

Skin corrosion/irritation Category 2
Serious eye damage/irritation Category 2
Germ cell mutagenicity Category 1
Carcinogenicity Category 1

Specific target organ toxicity:

- Single exposure Category 3

**Environmental Hazard** 

Aquatic Chronic Category 2

#### **GHS** Pictogram



# Signal Word

Danger

# **Hazard statements**

H226: Flammable liquid and vapour

H315: Causes skin irritation

H319: Causes serious eye irritation

- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness
- H340: May cause genetic defects
- H350: May cause cancer
- H411: Toxic to aquatic life with long lasting effects

#### Precautionary statements

- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames/hot surfaces No smoking
- P233: Keep container tightly closed
- P240: Ground/bond container and receiving equipment
- P241: Use explosion-proof electrical/ventilating/light/equipment
- P242: Use only non-sparking tools
- P243: Take precautionary measures against static discharge
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray
- P264: Wash hands thoroughly after handling
- P271: Use only outdoors or in a well-ventilated area
- P273: Avoid release to the environment
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P281: Use personal protective equipment as required

#### Response

- P312: Call a POISON CENTER or doctor/physician if you feel unwell
- P321: Specific treatment (see Section 4 of SDS)
- P362: Take off contaminated clothing and wash before reuse
- P391: Collect spillage
- P302+352: IF ON SKIN: Wash with soap and water
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P308+313: IF exposed or concerned: Get medical advice/attention
- P332+313: If skin irritation occurs: Get medical advice/attention
- P337+313: If eye irritation persists: Get medical advice/attention
- P370+378: In case of fire: Use appropriate media for extinction
- P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing

#### Storage

- P405: Store locked up
- P403+233: Store in a well ventilated place. Keep container tightly closed
- P403+235: Store in a well ventilated place. Keep cool

## **Disposal**

P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance with local or national regulations

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances	CAS No.	%
1,2,4-Trimethylbenzene	95-63-6	16-34
Xylene	1330-20-7	6-13
1,3,5-Trimethylbenzene	108-67-8	5-11

Substances	CAS No.	%
1,2,3-Trimethylbenzene	526-73-8	3-7
n-Propylbenzene	103-65-1	3-6
Cumene	98-82-8	2-3
Substances determined to be non-hazardous	-	Balance
		100%

## 4. FIRST-AID MEASURES

#### **INHALATION**

- o Move person to fresh air and call for medical assistance immediately.
- o If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Keep at rest.

#### SKIN CONTACT

- In case of contact, immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes.
- o If irritation persists, get medical attention.

#### **EYE CONTACT**

- Immediately flush eyes with large amounts of water until irritation subsides.
- Remove contact lens.
- Obtain medical attention, preferably by an ophthalmologist, immediately.

#### **INGESTION**

 DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately.

## 5. FIRE FIGHTING MEASURES

#### SUITABLE FIRE EXTINGUISHING MEDIA

Alcohol - resistant foam, Carbon dioxide, or dry chemical type.

#### SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

 Combustion products may include and are not limited to: Carbon monoxide and Carbon dioxide.

# SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS

- Wear full protective clothing and NIOSH approved self contained breathing apparatus.
- Use water spray to cool fire exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapours.
- If possible, isolate product from heat, electrical equipments, sparks and open flames.
- Avoid spraying water directly into storage containers.
- Closed containers may explode when exposed to extreme heat.
- o Avoid spreading burning liquid with water, isolate liquid.
- Do not allow runoff from fire fighting to enter drains or watercourses.

#### 6. ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

- Wear appropriate protective equipment, e.g. respirators, eye protection, gloves and safety shoes
- Avoid substance contact with eyes. Do not inhale vapours.
- Ensure supply of fresh air in enclosed rooms.

## **ENVIRONMENTAL PRECAUTIONS**

- Eliminate sources of ignition.
- Keep public away.
- Contain spilled liquid with sand or other non-combustible absorbent materials.
- Wash area and prevent runoff into drains and sewerage system.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

#### METHODS AND MATERIALS FOR CONTAINMENTS AND CLEANING UP

- Clean up all spills immediately.
- Absorb spill with absorbent and inert material, then place in container.
- Disposal in accordance to local/national regulations.

## 7. HANDLING AND STORAGE

#### PRECAUTIONS FOR SAFE HANDLING

- Use appropriate personal protective equipment.
- Keep out of reach of children.
- Handle containers with care. Open slowly in order to control possible pressure release.
- o Do not pressurize containers.
- Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eyes.
- For personal protection, see section 8.
- Use only in areas from which all naked lights and other sources of ignition have been excluded.
- Take precautionary measures against static discharge.
- Protect from frost and extremes of temperature.

## CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILTIES

- Keep containers tightly closed.
- Containers that are opened should be properly resealed and kept upright to prevent leakage.
- Store in cool, dry and well ventilated place at temperature between 20°C to 40°C away from heat and sources of ignition.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **CONTROL PARAMETERS/OCCUPATIONAL LIMITS**

Substances	ACGIH TLV-TWA		OSHA PEL-TWA	
	ppm	mg/m3	ppm	mg/m3
1,2,4-Trimethylbenzene	25	-	25	123.00
Xylene	100	434.00	-	-
1,3,5-Trimethylbenzene	25	-	25	123.00
1,2,3-Trimethylbenzene	-	-	-	-
n-Propylbenzene	-	-	-	-
Cumene	-	-	-	-

#### APPROPRIATE ENGINEERING CONTROL MEASURES

- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
- Ensure eyewash stations and safety showers are close to the workstation location.

#### PERSONAL PROTECTION

Respiratory Protection: Use of NIOSH - approved respirators with organic vapour

cartridges is recommended.

Hand Protection: Use of solvent resistance type or chemical resistant type of

protective gloves is recommended.

Eye Protection: Use of safety glasses or goggles with side shields is

recommended.

Skin / Body Protection: Wear chemical resistant clothes and safety shoes when

handling product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Odour : Aromatic hydrocarbon odour

Odour threshold : Not available pH : Not available Melting point/freezing point : Not available

Initial boiling point and boiling range : Between 80 and 175 °C

Flash point : 23 °C

Evaporation rate : Not available
Flammability (solid, gas) : Not applicable
Lower flammability or explosive limit : 0.8 % by vol
Upper flammability or explosive limit : 8 % by vol
Vapour pressure : Not available

Vapour density : > 1.00 (Vapour is heavier than air)

Relative density : Not available

Solubility : Not Miscible in water

Partition coefficient : Not available
Auto-ignition temperature : > 515 °C

Decomposition temperature : Not available
Viscosity : Not available

## 10. STABILITY AND REACTIVITY

#### REACTIVITY

No dangerous reaction known under condition of normal use.

#### **CHEMICAL STABILITY**

The product is stable under recommended storage and handling conditions. (see section 7)

## POSSIBILITY OF HAZARDOUS REACTION

Under normal conditions of storage and use, hazardous reaction will not occur.

## **CONDITIONS TO AVOID**

 Keep away from oxidising agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, drill, grind or expose containers to heat or sources of ignition.

#### HAZARDOUS DECOMPOSITION PRODUCTS

 When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

# 11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself.

Toxicological information of substances:

## Acute oral toxicity

Harmful if swallowed

Substances Oral LD50(Rat), mg/kg

1,2,4-Trimethylbenzene5000Xylene43001,3,5-Trimethylbenzene5000

1,2,3-Trimethylbenzene Data not available

n-Propylbenzene 6040 Cumene 1400

#### Acute dermal/skin toxicity

May be harmful if in contact with skin

Substances Dermal LD50 (Rabbit), mg/kg

1,2,4-Trimethylbenzene Data not available

Xylene 1700

1,3,5-TrimethylbenzeneData not available1,2,3-TrimethylbenzeneData not availablen-PropylbenzeneData not available

Cumene 12300

## **Acute inhalation toxicity**

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

Substances Inhalation Vapor LC50 (Rat), mg/L/4hr

1,2,4-Trimethylbenzene18000Xylene50001,3,5-Trimethylbenzene24000

1,2,3-Trimethylbenzene Data not available

n-Propylbenzene 65000

Cumene Data not available

#### Skin corrosion or irritation

Causes skin irritation. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

#### Serious eye damage or irritation

May be an eye irritant

## Respiratory or skin sensitisation

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and

the respiratory tract

## Germ cell mutagenicity

No information available on the product

## Carcinogenicity

No information available on the product

## Reproductive toxicity

No information available on the product

## Specific Target Organ Toxicity (STOT)-single exposure

No information available on the product

## Specific Target Organ Toxicity (STOT)-repeated exposure

No information available on the product

## **Asphyxiation hazard**

May be harmful if swallowed and enters airways

## 12. ECOLOGICAL INFORMATION

#### **Toxicity**

Aquatic toxicity -No data available

## Persistence and degradability

Biodegradation -No data available

## Bioaccumulative potential

No data available

## Mobility in soil

No data available

#### Result of PBT and vPvB assessment

No data available

#### Other adverse effects

There is no ecotoxicological test data available on the product itself.

The product should not be allowed to enter drains or water courses.

## 13. DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains and watercourses.

Preferred methods of waste disposal are incineration or biological treatment in federal/state approved facility. Empty containers should be recycled or disposed through an approved waste management facility or licensed contractor.

All federal, state and local environmental regulations shall be observed.

# 14. TRANSPORT INFORMATION

Transport to be in accordance with ADR/RID for road/rail, IMDG for sea and IATA for Air.

#### LAND TRANSPORT

Classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish,

liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL

(including paint thinning or reducing compound)

Class: Class 3

Packaging Group: III

#### SEA TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish,

liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL

(including paint thinning or reducing compound)

Class: Class 3
Packaging Group: III
Marine Pollutant Yes

# SEA (ANNEX II OF MARPOL 73/78 AND THE IBC CODE)

Not applicable

#### **AIR TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish,

liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL

(including paint thinning or reducing compound)

Class: Class 3
Packaging Group: III

## 15. REGULATORY INFORMATION

Applicable national regulations:

- Standards on Hazard communication for hazardous chemicals and dangerous goods
  - SS 586: Part 1: 2014-Transport and storage of dangerous goods
  - SS 586: Part 2: 2014-GHS of classification and labelling of chemicals
  - SS 586: Part 3: 2008(2014)-Preparation of safety data sheet
- MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions)
   Regulations
  - This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations.
- NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations
  - This product is not subject to control under this Acts/Regulations.
- SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations
  - This product is subject to the requirement of this Acts/Regulations.
- SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules
  - This product is not subject to the requirement of this Acts/Regulations.

## 16. OTHER INFORMATION

Revision Date/Version No.: 14-03-2017 /3/2.1.1

History

Previous Revision Date /Version No.: 24-03-2015 /3/1.1.1

Abbreviation

ACGIH American Conference of Governmental Industrial Hygienists

TLV Threshold limit value

TWA Time-Weighted Average

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

LD50 Lethal Dose

LC50 Median lethal concentration

IARC International Agency for Research in Cancer

#### Disclaimer

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