



MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No 1272/2008 [EU-GHS/CLP]

SECTION 1: IDENTIFICATION

1.1 Product Identifier:

Product name: 2216ID

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Fuel system cleaner

1.3 Details of the supplier of the safety data sheet

Name of supplier: Talbros Gardx Performance Products LTD

Address: K-258 Mam Chand Dhania Marg
Near Gurudwara G.T. Karnal Road
Siraspur, Delhi 110042 Delhi, India

Telephone number: 0129-4067004
Email: vpsingh@bnt-talbros.com

1.4 Emergency Telephone Number

Emergency Telephone Number: 0129-4067000

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquid (Category 3)
Skin irritation (Category 2)
Serious eye damage (Category 1)
Carcinogenicity (Category 2)
Specific target organ toxicity -Single exposure (Category 3)
Aspiration hazard (Category 1)

2.2. Label Elements

In accordance with Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Hazard pictogram(s):



Signal word: Danger

Hazard Statement(s):

H226: Flammable liquid and vapour
H315: Causes skin irritation
H318: Causes serious eye damage
H351: Suspected of causing cancer
H336: May cause drowsiness or dizziness
H304: May be fatal if swallowed and enters airways

Precautionary statement(s):

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240: Ground/Bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/eye protection/face protection.
P264: Wash hands thoroughly after handling
P261: Avoid breathing dust / fume / gas /mist /vapours /spray
P271: Use only outdoors or in a well- ventilated area

Response:

P303 + P361 + P353: If on skin (or hair): Remove/Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 + P310: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
P304 + P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.
P310: Immediately call a poison center/doctor if you feel unwell.
P301 + P310 + P331: If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.

Storage:

P235: Keep cool.
P403: Store in a well-ventilated place.
P233: Keep container tightly closed.
P405: Store locked up.

Disposal:

P501: Dispose of contents or containers in accordance with regional/national/international regulations.

2.3. Other hazards

No additional information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Mixture**

Product identifier (Product name): 2216ID

Information on ingredients:

Chemical name	Wt %	CAS No.
Kerosene, petroleum	30 - 60	8008-20-6
Isopropyl alcohol	15 - 40	67-63-0
Solvent naphtha, petroleum, light aromatic	7 - 13	64742-95-6
Alkylphenol polyoxyalkyl alkylamine	7 - 13	Proprietary
Xylenes (o-, m-, p- isomers)	1 - 5	1330-20-7
n-Propylbenzene	1 - 5	103-65-1
Cumene	0.1 - 1	98-82-8
Naphthalene	0.1 - 1	91-20-3

Classification of ingredients:

As a mixture : (CAS No: 8008-20-6, 67-63-0, 64742-95-6, 1330-20-7, 95-63-6, 108-67-8, 103-65-1, 98-82-8, 91-20-3)

Flammable liquid: Category 3: H226

Skin irritation: Category 2: H315

Serious eye damage: Category 1: H318

Carcinogenicity: Category 2: H351

Specific target organ toxicity - Single exposure: Category 3: H336

Aspiration hazard: Category 1: H304

Kerosene, petroleum:

Flammable liquid: Category 3: H226

Skin irritation: Category 2: H315
Specific target organ toxicity, single exposure (STOT SE): Category 3: H336
Aspiration hazard: Category 1: H304

Isopropyl alcohol:

Flammable liquid: Category 2: H225
Eye irritation: Category 2A: H319
Specific target organ toxicity, single exposure (STOT SE): Category 3: H336

Solvent naphtha, petroleum, light aromatic:

Aspiration hazard: Category 1: H304

Alkylphenol polyoxyalkyl alkylamine:

Eye damage: Category 1: H318

Xylenes (o-, m-, p- isomers):

Flammable liquid: Category 3: H226
Acute toxicity, (dermal, inhalation) : Category 4: H312, H332
Skin irritation : Category 2: H315

n-Propylbenzene:

Flammable liquid : Category 3 : H226
Specific target organ toxicity, single exposure (STOT SE): Category 3: H336
Aspiration hazard: Category 1: H304

Cumene:

Flammable liquid: Category 3: H226
Acute toxicity, (oral) : Category 4: H302
Carcinogenicity: Category 2 : H351

Naphthalene:

Acute toxicity, (oral, dermal) : Category 4: H302, H312
Carcinogenicity: Category 2 : H351

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

IF ON SKIN: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

IF IN EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

IF INGESTED: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If you feel unwell, get medical attention. if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression

May cause skin irritation. Symptoms may include redness, drying and cracking of the skin.

May causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Powder, water spray, foam, carbon dioxide

Unsuitable extinguishing media:

Do not use heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Products of combustion may include, and are not limited to: oxides of carbon

5.3. Advice for firefighters

Take action from upwind. Wear air respirators, chemical protective clothing during fire fighting. When extinguishing a fire in a confined area, be sure to wear self-contained breathing apparatus. Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool. Cool surrounding facilities, containers etc. with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Stay in the windward. Immediately eliminate all sources of ignition such as open flame, hot surfaces, etc.

For emergency responders:

Wear suitable personal protective equipment to avoid contact with eyes and skin or inhalation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. (See Section 8. for Exposure Controls and Personal Protective Equipment)

6.2. Environmental precautions

Use appropriate containment to avoid environmental contamination. Care should be made so that any adverse effects on the environment will not be caused by discharging the product into rivers, etc.

6.3. Methods and material for containment and cleaning up

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Scoop up material and place in a disposal container. Provide ventilation.

6.4 Reference to other sections

For further information on protective clothing and equipment, see section 8.
For disposal see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Containment and measures for safe handling:

Keep away from sources of ignition. No smoking.

Avoid contact with skin and eyes.

Do not swallow.

Do not breathe dust/fume/gas/mist/vapours/spray.

Handle and open container with care.

Use only non-sparking tools

When using, do not eat, drink or smoke.

Use only outdoors or in a well ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of reach of children.

Keep container tightly closed and in a well-ventilated place.

Store locked up.

Keep cool.

Keep away from heat, sparks, and flame.

7.3. Specific end use(s)

Not available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limits:

Kerosene, petroleum (8008-20-6)	ACGIH TWA	200 mg/m ³
Isopropyl alcohol (67-63-0)	ACGIH TWA	200 ppm
	ACGIH STEL	400 ppm
Solvent naphtha, petroleum, light aromatic (64742-95-6)	Not applicable	
Alkylphenol polyoxyalkyl alkylamine (Proprietary)	Not applicable	
Xylenes (o-,m-,p- isomers) (1330-20-7)	ACGIH TWA	100 ppm
	ACGIH STEL	150 ppm
	*PEL (India), TWA	100 ppm
	*PEL (India), STEL	150 ppm
n-Propylbenzene (103-65-1)	Not applicable	
Cumene (98-82-8)	ACGIH TWA	50 ppm
Naphthalene (91-20-3)	ACGIH TWA	10 ppm
	ACGIH STEL	15 ppm
	*PEL (India), TWA	10 ppm
	*PEL (India), STEL	15 ppm

* The data for PEL (Permissible Exposure Limit) in India has been sourced from DGFASLI (Directorate General, Factory Advice Service & Labour Institute, India)

8.2. Exposure controls

Appropriate engineering controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment:

Hand protection: Wear chemically resistant protective gloves

Eye protection: Properly fitted dust- or splash-proof chemical safety goggles) / face (face shield) protections are recommended when using product

Skin and body protection: Wear suitable protective clothing

Respiratory protection: A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls:

Maintain levels below community environmental protection thresholds.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Clear liquid

Odour: Petroleum odour

Odour threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: ~ 26 deg C (~ 78 deg F)

Flammability: Flammable

Upper/ lower flammability or explosive limits: No data available

Evaporation rate: No data available

Vapour pressure: No data available

Vapour density: No data available

Solubility: No data available

Relative density: 0.811- 0.823

Partition coefficient: n-octanol/Water: No data available

Auto ignition temperature: No data available

Decomposition temperature: No data available

Kinematic viscosity: No data available

9.2. Other information

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

This product is considered to be a no dangerous reaction known under conditions of normal use.

10.2. Chemical stability

This product is stable under normal storage conditions. May form flammable/explosive vapour-air mixture

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Open flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on product: 2216ID

Acute toxicity: Not classified

2216ID

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

Kerosene, petroleum (8008-20-6)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.28 mg/l/4h

Isopropyl alcohol (67-63-0)

LD50 oral rat	4396 mg/kg
LD50 dermal rat	12800 mg/kg
LD50 dermal rabbit	12870 mg/kg
LC50 inhalation rat (mg/l)	72.6 mg/l/4h

Solvent naphtha, petroleum, light aromatic (64742-95-6)

LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	3400 ppm/4h
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h

Xylenes (o-, m-, p- isomers) (1330-20-7)

LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	> 1700 mg/kg
LC50 inhalation rat (ppm)	5000 ppm/4h
LC50 inhalation rat (mg/l)	47635 mg/l/4h

n-Propylbenzene (103-65-1)

LD50 oral rat	6040 mg/kg
LC50 inhalation rat (ppm)	65000 ppm/2h

Cumene (98-82-8)

LD50 oral rat	1400 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (mg/m ³)	39000 mg/m ³ /4 h

Naphthalene (91-20-3)

LD50 oral rat	490 mg/kg
LD50 dermal rabbit	> 20 g/kg

Skin irritation: Causes skin irritation

Eye irritation: Causes serious eye damage

Respiratory / skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Suspected of causing cancer

Isopropyl alcohol (67-63-0)

IARC group	3
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Xylenes (o-, m-, p- isomers) (1330-20-7)

IARC group	3
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Cumene (98-82-8)

IARC group	2B
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Naphthalene (91-20-3)

IARC group	2B
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Reproductive toxicity: Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure): May cause drowsiness or dizziness

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability:

No information available.

12.3. Bioaccumulative potential:

No information available.

12.4. Mobility in soil:

No additional information available

12.5. Other adverse effects:

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

Handle empty containers with care because residual vapours are flammable.

SECTION 14: TRANSPORT INFORMATION

Rail/Road (RID/ADR)

UN No. : UN1993

Proper Shipping Name: Flammable liquids, n.o.s. (Petroleum, Isopropanol)

Transport hazard class: 3, Limited quantity

Packing Group: III

Sea (IMDG – Code)

IMDG No. : UN1993

Proper Shipping Name: Flammable liquids, n.o.s. (Petroleum, Isopropanol)

Class: 3, Limited quantity

Packing Group: III

Marine Pollutant: No

Air (ICAO/IATA)

UN No. : UN1993

Proper Shipping Name: Flammable liquids, n.o.s. (Petroleum, Isopropanol)

Class: 3, Limited quantity

Packing Group: III

Special precautions for user

Do not handle until all safety precautions have been read and understood.

During transportation, avoid exposure to direct sunlight and load containers in a way to prevent damage, corrosion and leakage.

Transport in bulk according to Annex II of MARPOL 73/78 and IBC code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1272/2008

15.2. Chemical safety assessment

Not conducted

SECTION 16: OTHER INFORMATION

Prepared on: January 4, 2016

Hazard statements of ingredient(s) which do not appear elsewhere in this SDS

H225: Highly flammable liquid and vapour

H302 : Harmful if swallowed

H312 : Harmful in contact with skin

H319 : Causes serious eye irritation

H332 : Harmful if inhaled

【Disclaimer】

The information provided in this SDS is correct to the best of our knowledge, information and belief at the date of its publication. This information given is only a guide for safe handling, use storage, transportation, disposal and release and is not to be considered as a warranty. The information corresponds only to the specific material designated and may not be valid for the material when used in combination with any other material.

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