1. Product and company identification

1.1. Product identifier

INTERTUF 203 BLACK
Product Code JVA207

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

Intended use Refer Technical Data Sheet.
For professional use only.
Application Method Refer Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Importer or Manufacturer
Akzo Nobel India Limited
Plot No. 62P, 62A, 62B, 43E,
Hoskote Industrial Area, Pilgumpa Hoskote Taluk,
Bangalore 562114. India

Telephone No. +91 80 22895000 / + 91 80 71717000
Fax No. +91 80 22895500 / + 91 80 71717500

1.4. Emergency telephone number (24 hour)

For Poisons Advice telephone +91 80 22895000 / + 91 80 71717000 For Advice to Doctors & Hospitals only

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Flam. Liq. 3;H226 Flammable liquid and vapour.
Acute Tox. 5;H313 May be harmful in contact with skin.
Skin Irrit. 2;H315 Causes skin irritation.
Eye Irrit. 2;H319 Causes serious eye irritation.
STOT SE 3;H335 May cause respiratory irritation.

2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.

Warning
H226 Flammable liquid and vapour.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

[Prevention]:
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P312 Call a POISON CENTER or doctor / physician if you feel unwell.
P321 Specific treatment (see information on this label).
P337+313 If eye irritation persists: Get medical advice / attention.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362 Take off contaminated clothing and wash before reuse.
P370 In case of fire:
P378 Use alcohol resistant foam, CO2, powder, water spray for extinction. Do not use water jet.

[Storage]:
P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

2.3. Other hazards
This product contains no PBT/vPvB chemicals.

3. Composition/information on ingredients

This product contains the following substances that present a hazard.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene Mixture of Isomers</td>
<td>25-50</td>
<td>Flam. Liq. 3;H226</td>
<td></td>
</tr>
<tr>
<td>CAS Number: 0001330-20-7</td>
<td></td>
<td>Acute Tox. 4;H332</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute Tox. 4;H312</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2;H315</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Asp. Tox. 1;H304</td>
<td>[1][2]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2;H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT SE 3;H335</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>2.5-10</td>
<td>Flam. Liq. 2;H225</td>
<td></td>
</tr>
<tr>
<td>CAS Number: 0000100-41-4</td>
<td></td>
<td>Acute Tox. 4;H332</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT RE 2;H373</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Asp. Tox. 1;H304</td>
<td>[1][2]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2;H315</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2;H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT SE 3;H335</td>
<td></td>
</tr>
<tr>
<td>methyl isobutyl ketone</td>
<td>1-2.5</td>
<td>Flam. Liq. 2;H225</td>
<td></td>
</tr>
<tr>
<td>CAS Number: 0000108-10-1</td>
<td></td>
<td>Acute Tox. 4;H332</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2;H319</td>
<td>[1][2]</td>
</tr>
</tbody>
</table>

[1] Information on this label.
[2] If eye irritation persists.
4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Skin Contact
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognised skin cleanser. Do NOT use solvents or thinners.

Eye Contact
Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

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

4.2. Most important symptoms and effects, both acute and delayed
No data available

4.3. Indication of any immediate medical attention and special treatment needed
No data available

5. Fire-fighting measures

5.1. Extinguishing media
Recommended extinguishing media; alcohol resistant foam, CO2, powder, water spray.

Do not use - water jet.

Note; Fire will produce dense black smoke. Decomposition products may be hazardous to health. Avoid exposure and use breathing apparatus as appropriate.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and
contaminants from fire fighting to enter drains or water courses.

5.2. Special hazards arising from the substance or mixture
Fire will produce dense black smoke. Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. Avoid exposure and use breathing apparatus as appropriate.

5.3. Advice for fire-fighters
Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapour levels are below the Lower Explosive Limit before re-entering.

6.2. Environmental precautions
Do not allow spills to enter drains or watercourses.

6.3. Methods and material for containment and cleaning up
Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

7. Handling and storage

7.1. Precautions for safe handling
Handling
This coating contains solvents. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

In Storage
Handle containers carefully to prevent damage and spillage.
Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.
This coating contains solvents. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from the following materials: oxidising agents, strong alkalis, strong acids.

Avoid skin and eye contact. Avoid inhalation of vapours and spray mists. Observe label precautions. Use personal protection as shown in section 8.
Smoking, eating and drinking should be prohibited in all preparation and application areas.

Never use pressure to empty a container; containers are not pressure vessels.
This is a flammable liquid. Store in accordance with local regulations for petroleum and other flammable liquids.
There are no exposure scenarios, see details in section 1.

7.3. Specific end use(s)
Store in a well ventilated, dry place away from sources of heat and direct sunlight.

Store on concrete or other impervious floor, preferably with bunding to contain any spillage. Do not stack more than 3 pallets high.

Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in the original container or one of the same material.

Prevent unauthorised access.
All sources of ignition (hot surfaces, sparks, open flames etc) should be excluded from areas of preparation and application. All electrical equipment (including torches) should be protected (Ex) to the appropriate standard.

The product may charge electrostatically. Always use earthing leads when pouring solvents and transferring product. Operators should wear clothing which does not generate static (at least 60% natural fibre) and antistatic footwear; floors should be of conducting type.

### 8. Exposure controls and personal protection

#### 8.1. Control parameters
From the listed Exposure Standards for Atmospheric Contaminants (ACGIH) as amended.

<table>
<thead>
<tr>
<th>Material</th>
<th>PEL (Short Term) ppm</th>
<th>PEL (Short Term) mg/m³</th>
<th>PEL (Long Term) ppm</th>
<th>PEL (Long Term) mg/M³</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene</td>
<td>125</td>
<td>543</td>
<td>100</td>
<td>434</td>
<td></td>
</tr>
<tr>
<td>methyl isobutyl ketone</td>
<td>75</td>
<td>307</td>
<td>50</td>
<td>205</td>
<td></td>
</tr>
<tr>
<td>TALC</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Xylene Mixture of Isomers</td>
<td>150</td>
<td>651</td>
<td>100</td>
<td>434</td>
<td></td>
</tr>
</tbody>
</table>

(P) Peak exposure limit
(R) Suppliers Recommended Limit
(Sk) There is a risk of absorption through unbroken skin
(Sen) Sensitiser
(Cat1) Category 1 - established human carcinogen
(Cat2) Category 2 - probable human carcinogen
(Cat3) Category 3 - substances suspected of having carcinogenic potential

DNEL/PNEC values
No Data Available

#### 8.2. Exposure controls
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Eye Protection
Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.
Eyewear should comply with the appropriate standard.

Wear a full face shield if mixing or pouring operations pose a risk of splashes.

An eyewash station is suggested as a good workplace practice.

**Skin Protection**

Gloves of an appropriate material should be worn during mixing and application.

**Other**

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. They should however not be applied once exposure has occurred. Petroleum jelly based types such as Vaseline should not be used. All parts of the body should be washed after contact.

**Respiratory Protection**

When concentrations exceed the exposure limits shown above workers must wear appropriate approved respirators. Provision of other controls such as exhaust ventilation should be considered if practical.

**Thermal hazards**

No Data Available

---

**9. Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Colour</strong></td>
<td>Black Liquid</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Smell of Solvent</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Melting point / freezing point (°C)</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range (°C)</strong></td>
<td>114</td>
</tr>
<tr>
<td><strong>Flash Point (°C)</strong></td>
<td>26</td>
</tr>
<tr>
<td><strong>Evaporation rate (Ether = 1)</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Lower Explosive Limit: 1.1 (Xylene Mixture of Isomers)</td>
</tr>
<tr>
<td></td>
<td>Upper Explosive Limit: 6.6 (Xylene Mixture of Isomers)</td>
</tr>
<tr>
<td><strong>Vapour pressure (Pa)</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>Vapour Density</strong></td>
<td>Heavier than air.</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>1.12</td>
</tr>
<tr>
<td><strong>Solubility in Water</strong></td>
<td>Immiscible</td>
</tr>
<tr>
<td><strong>Partition coefficient n-octanol/water (Log Kow)</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>Viscosity (cSt)</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>

**9.2. Other information**

No further information

---

**10. Stability and reactivity**
10.1. Reactivity
No data available

10.2. Chemical stability
Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions.

10.3. Possibility of hazardous reactions
May react exothermically with: oxidising agents, strong alkalis, strong acids.

10.4. Conditions to avoid
Stable under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
Keep away from the following materials: oxidising agents, strong alkalis, strong acids.

10.6. Hazardous decomposition products
Fire will produce dense black smoke. Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. Avoid exposure and use breathing apparatus as appropriate.

11. Toxicological information

Acute toxicity

Exposure to solvent vapour concentrations from the component solvents 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 the kidneys, liver and central nervous system. Symptoms include headache, nausea, 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 dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapour LD50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LD50, mg/L/4hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Resin - (25068-38-6)</td>
<td>2,000.00, Rat</td>
<td>2,000.00, Rabbit</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Ethylbenzene - (100-41-4)</td>
<td>3,500.00, Rat</td>
<td>15,433.00, Rabbit</td>
<td>17.20, Rat</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>methyl isobutyl ketone - (108-10-1)</td>
<td>2,080.00, Rat</td>
<td>16,000.00, Rabbit</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Xylene Mixture of Isomers - (1330-20-7)</td>
<td>4,299.00, Rat</td>
<td>1,548.00, Rabbit</td>
<td>Not Applicable</td>
<td>20.00, Rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Category</th>
<th>Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity (mouth)</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute Toxicity (skin)</td>
<td>5</td>
<td>May be harmful in contact with skin.</td>
</tr>
<tr>
<td>Acute Toxicity (inhalation)</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>2</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Eye damage/irritation</td>
<td>2</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Sensitization (respiratory)</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Sensitization (skin)</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ toxicity</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity (single exposure)</td>
<td>3</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Specific target organ systemic Toxicity (repeated exposure)</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not Classified</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

### 12. Ecological information

#### 12.1. Toxicity
The preparation has been assessed according to the GHS criteria and is not classified as dangerous for the environment.

There are no data available on the product itself.

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

**Aquatic Ecotoxicity**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene Mixture of Isomers - (1330-20-7)</td>
<td>3.30, Oncorhynchus mykiss</td>
<td>8.50, Palaemonetes pugio</td>
<td>100.00 (72 hr), Chlorococcales</td>
</tr>
<tr>
<td>Ethylbenzene - (100-41-4)</td>
<td>4.20, Oncorhynchus mykiss</td>
<td>2.93, Daphnia magna</td>
<td>3.60 (96 hr), Pseudokirchneriella subcapitata</td>
</tr>
<tr>
<td>methyl isobutyl ketone - (108-10-1)</td>
<td>505.00, Pimephales promelas</td>
<td>1,550.00, Daphnia magna</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Epoxy Resin - (25068-38-6)</td>
<td>3.10, Pimephales promelas</td>
<td>1.40, Daphnia magna</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability
There is no data available on the preparation itself.

#### 12.3. Bioaccumulative potential
Not Measured

#### 12.4. Mobility in soil
No data available

#### 12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

#### 12.6. Other adverse effects
No data available

### 13. Disposal considerations

#### 13.1. Waste treatment methods
Do not allow into drains or water courses. Wastes and empty containers should be disposed of in
accordance with local regulations.

Using information provided in this data sheet advice should be obtained from the local Waste Regulation Authority as to whether special waste regulations apply.

14. Transport information

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th>1263</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Paint</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Road and Rail Transport 1263, Paint, 3, III, 3[Y]</td>
</tr>
<tr>
<td>IMDG reference :</td>
<td>Class/Div 3 Sub Class</td>
</tr>
<tr>
<td>Ems</td>
<td>F-E,S-E</td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>Class 3 Sub Class</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>III</td>
</tr>
</tbody>
</table>

14.5. Environmental hazards

Road and Rail Transport Environmentally Hazardous: No

IMDG reference : Marine Pollutant: No

14.6. Special precautions for user

No further information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

15. Regulatory information

This product and all its components complies with the chemical and transport regulations from the country listed in section 1.3.

Other regulatory information specific to the hazardous chemical(s):

None noted.

16. Other information

The information on this SDS is based upon the present state of our knowledge and on current laws. The product should not be used for purposes other than shown in the product data sheet without first obtaining written advice. It is always the responsibility of the user to take all necessary steps to meet the demands of applicable legislation.
The full text of the phrases appearing in section 3 is:

H225 Highly Flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 Vapours may cause drowsiness and dizziness
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.

This SDS is valid for 5 years from the revised date on page 1.
The revision date is in American format (e.g. MM/DD/YY).

End of document

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Akzo Nobel however makes no warranty as to the accuracy of and/or sufficiency of such information.