1. Product and Company Identification

1.1 PRODUCT NAME: DUO PRIMER

1.2 USE OF PRODUCT Bituminous primer for substrates prior to torch-on membrane application.

1.3 SUPPLIER:

Equus Industries Ltd
Sheffield Street
Riverlands Industrial Estate
Blenheim, Marlborough, New Zealand
Telephone: +64 3 578 0214
Fax: +64 3 578 0919

1.4 EMERGENCY CONTACT:

National Poison Centre
Telephone: 0800 764 766

Information about Safety Data Sheet: Telephone: +64 3 578 0214 8:00am – 6:00pm Mon - Fri

1.5 DATE OF PREPARATION: 10 July 2020

2. Hazards Identification

2.1 Statement of Hazardous Nature:
Classified as hazardous according to New Zealand Hazardous Substances (Minimum degrees of hazard) Regulations 2007

2.2 HSNO Group Standard:
Surface Coatings and Colourants (Flammable) Group Standard 2017

2.3 Substance Classification:
3.1C, 6.1E, 6.9(narcotic), 9.1B

2.4 Hazard Statements:

H226 Flammable liquid and vapour.
H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H313 May be harmful in contact with skin.
H333 May be harmful if inhaled.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

2.5 Prevention 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/lighting.
P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye
P281 Use personal protective equipment as required.

2.6 Response Statements:

P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use water fog for extinction.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P391	Collect spillage.

2.8 Storage Statements.

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

3. Composition/Information on Ingredients

3.1 Chemical Characterization (Mixture):

3.2 Dangerous Components:

CAS NO.	COMPONENT	CONCENTRATION (% weight)
64742-82-1	Naphtha (petroleum) Hydrodesulphurised, heavy	<29
64742-95-6	Solvent naphtha (petroleum) Light aromatic	<15

4. First Aid Measures

4.1 Decription of first aid measures:

4.1.1 After Inhalation:
If medical advice is needed, have product container label at hand. Remove person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms develop.

4.1.2 After Skin Contact:
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation persists, seek medical advice.

4.1.3 After Eye Contact:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take person to an ophthalmologist if irritation persists.

4.1.4 After Ingestion:
Do not induce vomiting. Seek medical attention immediately.

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

4.2.2 Symptoms/injuries after inhalation:
Inhalation may cause: irritation, cough, short breathing. May cause headache and dizziness. May cause drowsiness or dizziness. Obtain medical attention if breathing difficulty persists.

4.2.3 Symptoms/injuries after skin contact:
Remove all contaminated clothing and footwear. IF ON SKIN: Wash with plenty of soap and water. Repeated exposure may cause skin dryness or cracking.

4.2.4 Symptoms/injuries after eye contact:
Irritating to eyes. Remove immediately with plenty of water for 15 minutes. Consult a doctor.

4.2.5 Symptoms/injuries after ingestion:
Swallowing of this material presents health hazard. May cause lung damage if swallowed. Seek medical assistance, even if there are no immediate symptoms.

4.3 Indication of any immediate medical attention and special treatment if needed:
Treat symptomatically.

5. Fire Fighting Measures

5.1 Extinguishing Media:

Suitable Extinguishing Media:	Water fog, carbon dioxide (CO2), foam and powder.
Unsuitable Extinguishing Media:	Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture:

Fire Hazard**:**	Heating may cause a fire or explosion. This product is flammable.
Explosion Hazard:	May form flammable/explosive vapour-air mixture.

5.3 Advice for firefighters:

Precautionary measures fire:	Evacuate area.
Firefighting instructions:	Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting:	Self-contained breathing apparatus. Complete protective clothing. Do not attempt to take action without suitable protective equipment.
Other information**:**	Use water spray or fog for cooling exposed containers.

6. Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures:

General Measures:	Eliminate every possible source of ignition. No naked flames, sparks, and do not smoke.

6.1.1 For non-emergency personnel:

Protective equipment:	High gas/vapour concentration: gas mask with filter type A. nitrile-rubber protective gloves.

Emergency procedures:	Only qualified personnel equipped with suitable protective equipment may intervene. Do not get in eyes, on skin, or on clothing. Notify police and fire brigade as soon as possible.

6.1.2 For emergency responders:

Protective equipment:	Equip cleanup crew with proper protection. Do not attempt to take action without suitable protective equipment.
Emergency procedures:	Ventilate area.

6.2 Environmental precautions:

Notify authorities if liquid enters sewers or public waters. Collect spillage.

6.3 Methods and material for containment and cleaning up:

For containment:	Collect spillage
Methods for cleaning up:	This material and its container must be disposed of in a safe way, and as per local legislation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Other information:	Dispose of materials or solid residues at an authorised site.

7. Handling and Storage

7.1 Precautions for safe handling:

Precautions for safe handling:	Use only outdoors or in well-ventilated area. Eliminate all ignition sources if safe to do so. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharge.

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures:	Use only non-sparking tools. Take precautionary measures against static discharge.
Storage conditions:	Keep cool. Store in a well-ventilated place. Keep container tightly closed.
Storage area:	Store away from direct sunlight or other heat sources.

8. Exposure Controls and Personal Protection Equipment

8.1 Control parameters:

CHEMICAL NAME	CAS NUMBER	REGULATION	LIMIT
Naphtha(petroleum) Hydrodesulpherised heavy.	64742-82-1	EU/IOELV TWA	52ppm, 300mg/m²
Solvent naphtha (petroleum) Light aromatic	64742-95-6	EU/IOELV STEL	19ppm,100mg/m³

8.2 Exposure Controls:

Appropriate engineering controls:	Ensure good ventilation of the work station.
Personal protective equipment:	Gas mask with filter type A. Protective goggles. Protective clothing. Gloves.
Hand Protection:	Nitrile-rubber protective gloves.
Eye protection:	Safety glasses
Skin and body protection:	Wear suitable protective clothing.
Respiratory protection:	Ventilation. Local exhaust, or breathing protection. High gas/vapour concentration, gas mask with filter type A.

Environmental exposure controls: Avoid release to the environment.

Consumer exposure controls:	Avoid contact during pregnancy/while nursing.
Other information:	Do not eat, drink or smoke when using this product.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Physical State/Form	Liquid
Colour	Black
Odour	Aromatic
Odour threshold	No data available
pH	No data available
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	40°C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid,gas)	No data available
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Density	0,92kg/l
Solubility	No data available
Log Pow	No data available
Kinematic Viscosity	46,93 mm^2/s
Kinematic dynamic	No data available
Explosive properties	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	0.6 – 7 vol%

9.2 Other information

VOC content	395 g/l

10. Stability and Reaction

10.1 Reactivity:

Heating may cause a fire or explosion. Highly flammable liquid and vapour.

10.2 Chemical Stability:

Combustible liquid.

10.3 Possibility of hazardous reactions:

No additional information available.

10.4 Conditions to avoid:

All heat sources, including direct sunlight. No flames, no sparks. Eliminate all sources of ignition. Avoid shock and friction.

10.5 Incompatible materials:

Bases. Acids, oxidizing agents.

10.6 Hazardous decomposition products:

Fire may liberate carbon oxides (CO) and smoke.

11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity: Not classified.

Naphtha (petroleum), hydrodesulfurised heavy (64742-82-1)	
LD50 oral rat	>5000mg/kg
LD50 dermal rabbit	>4 ml/kg
LC50 inhalation rat (mg/l)	13,1 mg/l

Solvent naphtha (petroleum), light aromatic (64742-95-6)	
LD50 oral rat	3592 mg/kg
LD50 dermal rabbit	>3160 mg/kg
LC50 inhalation rat (mg/l)	>6193 mg/m³

Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure):	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration Hazard:	Not classified

Duo Primer	
Viscosity, kinematic	46,93mm²/s

12. Ecological Information

12.1 Toxicity:

Ecology – general Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Duo Primer	
LC50 fishes 1	9,71 mg/l Oncorhynchus mykiss 96h
EC50 Daphnia 1	5,82 mg/l daphnia magna 48h

Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	
LC50 fishes 1	10-30 mg/l Oncorhynchus mykiss (96h)
EC50 Daphnia 1	10-22 mg/l Daphnia magna (48h)
EC50 other aquatic organisms 1	4,6-10 mg/l Pseudokirchneriella subcapitata (72h)
NOEC chronic fish	0,097 mg/l Daphnia magna (21d)

Solvent naphtha (petroleum), light aromatic (64742-95-6)	
LC50 fishes 1	9,2 mg/l Oncorhynchus mykiss (96h)
EC50 Daphnia 1	3,2 mg/l Daphnia magna (48h)
ErC50 (algae)	1 mg/l Pseudokirchneriella subcapitata (72h)

12.2 Persistence and degradability:

Solvent naphtha (petroleum), light aromatic (64742-95-6)	
Biodegration	78 % (28 days)

12.3 Bioaccumulative Potential:

Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	
Log Pow	3,7 – 6,7
Bioaccumulative potential	Not established

Solvent naphtha (petroleum), light aromatic (64742-95-6)	
Bioaccumulative potential	Not established

12.4 Mobilty in Soil:
No additional information available

12.5 Other adverse effects:
Additional information: Avoid release to the environment.

13. Disposal Consideration

13.1 Waste treatment methods:

Waste disposal recommendations: Discharging into rivers and drains is forbidden. Dispose of in accordance with the relevant local regulations.

Additional information: Flammable vapours may accumulate in the container. Clean up even minor leaks or spills if possible without unnecessary risk.

Ecology-waste materials: Avoid release to the environment.

14. Transport Information

14.1 Regulated under NZS 5433 for land transport.

UN Number: 1263

Proper Shipping Name: Paint related material.

Class: 3
Packing Group: lll

Hazchem Code: 3YE

Further Information: Marine Pollutant.

15. Regulatory Information

15.1 HSNO approval:

Approval code: HSR 002662
HSNO Group standard Surface Coatings and Colourants (Flammable)

15.2 HSNO Controls:
Approved Handler Not required.

16. Other Information

16.1 Hazard/Classifications:

3.1C	Flammable Liquid – medium hazard.
6.1E	Substances that are acutely toxic. May be harmful. Aspiration hazard.
6.7B	Substances that are suspected human carcinogens.
6.9(narcotic)	Substances that are harmful to human target organs or systems
9.1B	Substances that are ecotoxic in the aquatic environment.

16.2 Abbreviations/Terminology:

HSNO	Hazardous Substances and New Organisms Act.
CAS	Chemical Abstract Service.
LD50/LC50	Lethal dose/Lethal concentration- Dose or concentration required to produce the specified effect in 50% of the sample studied.
EC50	Half maximal effective concentration
ErC50	EC50 in terms of reduction of growth rule.
TWA	Time Weighted Average – the average exposure level designed from the effects of long-term exposure.
STEL	Short-term Exposure Level (15 minutes)
NOEC	No observed effect level.
DNEL	Derived no-effect level.
DMEL	Derived minimal effect level.
IOELV	Indicative occupational exposure limit values.
Log Pow	Octanol – water partition co-efficient.
E.U	European Union.

16.3 Issue information:

Date of preparation: 10 July 2020

Reasons: Update

Replaces: 21 July 2015

16.4 The information contained in this Data Sheet relates only to the specific material identified. Equus Industries Ltd believes the information to be accurate and reliable as at the date of this Data Sheet. No Warranty, Guarantee or representation is expressed or implied by the Company as to the absolute correctness or completeness of any representation contained in this Data and assumes no legal responsibility in connection therewith. It cannot be assumed that all acceptable safety measures are contained in this Data Sheet, or that additional measures may not be required under particular or exceptional circumstances or conditions.