Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **product identifiers**

Article No. (manufacturer/supplier):	23610000B
Identification of the substance or mixture	MIXITON / 3 STUNDEN

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

Relevant identified uses:
Artists supply and hobby preparations
Coatings and paints, thinners, paint removers

1.3. **Details of the supplier of the safety data sheet**

Supplier (manufacturer/importer/downstream user/distributor):
Daler-Rowney Ltd
Peacock Lane
Bracknell, RG12 8SS
ENGLAND
Telephone: +44 (0) 1344 461083
Telefax: +44 (0) 1344 486511

Dept. responsible for information:

E-mail: Philip.Gray@daler-rowney.com

1.4. **Emergency telephone number**

Emergency telephone: +44 (0) 1344 461000

SECTION 2: Hazards identification

2.1. **Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. **Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Warning

Hazard statements

H226	Flammable liquid and vapour.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of the reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P501	Dispose of contents/container in accordance with local legislation.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.

contains:

Solvent naphtha (petroleum), light arom.

Supplemental Hazard information (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains phthalic anhydride; 2-butanone oxime. May produce an allergic reaction.

2.3. **Other hazards**

SECTION 3: Composition / information on ingredients

3.2. **Mixtures**

Product description / chemical characterization

Description Alkydharz-Lack

Hazardous ingredients

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
265-199-0 64742-95-6 649-356-00-4	01-2119455851-35 Solvent naphtha (petroleum), light arom. Flam. Liq. 3 H226 / STOT SE 3 H335 / Aquatic Chronic 2 H411 / Asp. Tox. 1 H304 / STOT SE 3 H336	25 - 50
918-668-5 649-356-00-4	01-2119455851-35-xxxx Hydrocarbons, C9, aromatics STOT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226	10 - 12,5
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene Flam. Liq. 3 H226 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / STOT RE 2 H373 / STOT SE 3 H335	1 - 2,5
202-496-6 96-29-7 616-014-00-0	01-2119539477-28 2-butanone oxime Flam. Liq. 3 H226 / Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Carc. 2 H351	0,5 - 1
201-607-5 85-44-9 607-009-00-4	01-2119457017-41-0011 phthalic anhydride Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Resp. Sens. 1 H334 / Skin Sens. 1 H317	< 0,5

Additional information
Full text of classification: see section 16

SECTION 4: First aid measures

4.1. **Description of first aid measures**

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation
Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion
If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.

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

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. **Special hazards arising from the substance or mixture**

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage. Vapours form explosive mixtures with air.

5.3. **Advice for firefighters**

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. **Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Vapours form explosive mixtures with air.

6.3. **Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. **Conditions for safe storage, including any incompatibilities**

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. **Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Occupational exposure limit values:

phthalic anhydride
INDEX No. 607-009-00-4 / EC No. 201-607-5 / CAS No. 85-44-9

TWA: 4 mg/m3
STEL: 12 mg/m3

Additional information

TWA : long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

DNEL:

phthalic anhydride
INDEX No. 607-009-00-4 / EC No. 201-607-5 / CAS No. 85-44-9
DNEL long-term dermal (systemic), Workers: 10 mg/kg
DNEL long-term inhalative (systemic), Workers: 32.2 mg/m³
DNEL long-term oral (repeated), Consumer: 5 mg/kg
DNEL long-term dermal (systemic), Consumer: 5 mg/kg
DNEL long-term inhalative (systemic), Consumer: 8.6 mg/m³

Hydrocarbons, C9, aromatics
INDEX No. 649-356-00-4 / EC No. 918-668-5
DNEL long-term dermal (systemic), Workers: 25 mg/kg
DNEL long-term inhalative (systemic), Workers: 150 mg/m³
DNEL long-term oral (repeated), Consumer: 11 mg/kg
DNEL long-term dermal (local), Consumer: 11 mg/kg
DNEL acute inhalative (local), Consumer: 32 mg/m³

PNEC:

phthalic anhydride
INDEX No. 607-009-00-4 / EC No. 201-607-5 / CAS No. 85-44-9
PNEC aquatic, freshwater: 1 mg/l
PNEC aquatic, marine water: 0.1 mg/l
PNEC aquatic, intermittent release: 5.6 mg/l
PNEC sediment, freshwater: 3.8 mg/kg
PNEC sediment, marine water: 0.38 mg/kg
PNEC, soil: 0.173 mg/kg
PNEC sewage treatment plant (STP): 10 mg/l

8.2. **Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used:
Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures
After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls
Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

Appearance:	Liquid
Physical state:	Liquid
Colour:	refer to label
Odour:	characteristic

Safety relevant basis data		Unit	Method	Remark
Flash point:	37	°C	DIN 53213	
Ignition temperature in °C:	450	°C		
Lower explosion limit:	0,7	Vol-%		
Upper explosion limit:	7,8	Vol-%		
Vapour pressure at 20 °C::	0,7065			
Density at 20 °C::	1,00	g/cm³		
Water solubility (g/L):	insoluble			
pH at 20 °C::	-			
Viscosity at 20 °C::	> 540 s 3 mm		EN ISO 2431	
Solvent separation test (%):	< 3	%		
boiling point in °C at 101,3 kPa	135	°C		

9.2. **Other information:**

SECTION 10: Stability and reactivity

10.1. **Reactivity**

10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions. Vapours form explosive mixtures with air.

10.4. **Conditions to avoid**
Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

10.6. **Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
No data on preparation itself available.

11.1. **Information on toxicological effects**

Acute toxicity

phthalic anhydride
oral, LD50, Rat: 1530 mg/kg
inhalative (dust and mist), LC50, Rat: > 2.14 mg/l (4 h)

2-butanone oxime
oral, LD50, Rat: 2528 mg/kg
dermal, LD50, Rabbit: 185 mg/kg
inhalative (vapours), LC50, Rat: > 10.4 mg/l (4 h)

Hydrocarbons, C9, aromatics
oral, LD50, Rat: 3592 mg/kg
dermal, LD50, Rat: > 3160 mg/kg
inhalative (vapours), LC50, Rat: > 10.2 mg/l (4 h)

Xylene
oral, LD50, Rat: 3523 mg/kg
dermal, LD50, Rabbit: > 4200 mg/kg
inhalative (vapours), LC50, Rat: 21.7 mg/l (4 h)

skin corrosion/irritation; Serious eye damage/eye irritation

phthalic anhydride
Skin, dermal, Rabbit. (4)
Method: OECD 406
slightly irritant

Xylene
Skin (4 h)
Irritant.

Respiratory or skin sensitisation

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2-butanone oxime
Carcinogenicity; evaluation Limited evidence of a carcinogenic effect.

Specific target organ toxicity

May cause respiratory irritation.

May cause drowsiness or dizziness.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:
Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation
Classification according to Regulation (EC) No 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains.

12.1. **Toxicity**

phthalic anhydride
Daphnia toxicity, EC50, Daphnia magna: > 640 mg/l (48 h)

2-butanone oxime
Fish toxicity, LC50: > 100 mg/l (96 h)
Daphnia toxicity, EC50: 201 mg/l (48 h)

Hydrocarbons, C9, aromatics
Fish toxicity, LC50, fish 1 - 10 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 3.2 mg/l (48 h)

Xylene
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2.6 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1 mg/l (48 h)
Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4.36 mg/l (73 h)
Method: OECD 201

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

Hydrocarbons, C9, aromatics
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9.2 mg/l (96 h)
Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 1.23 mg/l (28 D)
Algae toxicity, NOEC, Daphnia magna (Big water flea): 2.14 mg/l (21 D)

Xylene
Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): > 1.3 mg/l (56 D)

12.2. **Persistence and degradability**

Hydrocarbons, C9, aromatics
:
Photo-chemical elimination

Xylene
Biodegradation:, OECD 301 F: 87.8 % (28 D)

12.3. **Bioaccumulative potential**

Hydrocarbons, C9, aromatics
Partition coefficient: n-octanol/water: 3.7 - 6.7

Bioconcentration factor (BCF)

phthalic anhydride
Bioconcentration factor (BCF): 3.16

Xylene
Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 7.2 - 25.9

12.4. **Mobility in soil**

Toxicological data are not available.

12.5. **Results of PBT assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. **Other adverse effects**

SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product
Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

140603* other solvents and solvent mixtures

packaging
Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste. Send to a collecting point for used paints.

SECTION 14: Transport information

14.1. **UN number**

UN 1993

14.2. **UN proper shipping name**

Land transport (ADR/RID):	Flammable liquid, n.o.s. (solvent naphtha)
Sea transport (IMDG):	FLAMMABLE LIQUID, N.O.S. (solvent naphtha)
Air transport (ICAO-TI / IATA-DGR):	Flammable liquid, n.o.s. (solvent naphtha)

14.3. **Transport hazard class(es)**

3

14.4. **Packing group**

III

14.5. **Environmental hazards**

Land transport (ADR/RID)	UMWELTGEFÄHRDEND
Marine pollutant	p / solvent naphtha

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code	D/E

Sea transport (IMDG)

EmS-No.	F-E, S-E

14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

SECTION 15: Regulatory information

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

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2:	504
VOC-value (in g/L) ASTM D 2369:	504

National regulations

Restrictions of occupation
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

15.2. **Chemical Safety Assessment**
For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
265-199-0 64742-95-6	Solvent naphtha (petroleum), light arom.	01-2119455851-35
215-535-7 1330-20-7	Xylene	01-2119488216-32

SECTION 16: Other information

Full text of classification in section 3:

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it

		is conclusively proven that no other routes of exposure cause the hazard).
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Abbreviations and acronyms
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Further information
Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in chapter 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.