

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Phthalic anhydride solution 180 g PSA + 30 g 1-methylimidazol + 1 l pyridin/l

Revision: 12.11.2024

Product code: 05568

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

1.1. Product identifier

Phthalic anhydride solution 180 g PSA + 30 g 1-methylimidazol + 1 l pyridin/l

UFI: T2EG-A0XD-R00H-0X4E

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

Use of the substance/mixture

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH
	ACD
Street:	Stempelstraße 6
Place:	D-47167 Duisburg
Telephone:	0203/5194-0
E-mail:	info@analytichem.de
Contact person:	Abteilung Produktsicherheit
E-mail:	produktsicherheit@analytichem.de
Internet:	www.analytichem.de
Responsible Department:	Abteilung Produktsicherheit

Telefax: 0203/5194-290

Telephone: 0203/5194-107/117

1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTRIC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225

Acute Tox. 4; H332

Acute Tox. 4; H312

Acute Tox. 4; H302

Skin Irrit. 2; H315

Eye Dam. 1; H318

Resp. Sens. 1; H334

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

pyridine

phthalic anhydride

1-methylimidazole

according to Regulation (EC) No 1907/2006

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Signal word: Danger**Pictograms:****Hazard statements**

H225	Highly flammable liquid and vapour.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
Classification (Regulation (EC) No 1272/2008)				
110-86-1	pyridine			80 - < 85 %
203-809-9 613-002-00-7 01-2119493105-40				
Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H225 H332 H312 H302 H315 H319				
85-44-9	phthalic anhydride			15 - < 20 %
201-607-5 607-009-00-4				
Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H302 H315 H318 H334 H317 H335				
616-47-7	1-methylimidazole			1 - < 5 %
210-484-7 613-035-00-7				
Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B; H311 H302 H314				

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
Specific Conc. Limits, M-factors and ATE			
110-86-1	203-809-9	pyridine	80 - < 85 %
inhalation: LC50 = 4900 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 1000 - < 2000 mg/kg; oral: LD50 = > 800 - < 1600 mg/kg			
85-44-9	201-607-5	phthalic anhydride	15 - < 20 %
oral: LD50 = 1530 mg/kg			
616-47-7	210-484-7	1-methylimidazole	1 - < 5 %
dermal: LD50 = 400 - 640 mg/kg; oral: LD50 = ca. 1144 mg/kg			

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

No data available

After inhalation

Provide fresh air.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.

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

Irritant

Dizziness

The product causes narcotic-like effects.

Vomiting

Allergic reactions

Dyspnoea

Cough

Circulatory collapse

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

No data available

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

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Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquid.

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide (CO₂), Carbon monoxide

Nitrogen oxides (NO_x)

Beware of reignition.

5.3. Advice for firefighters

Remove persons to safety. Do not inhale explosion and combustion gases.

Avoid contact with skin, eyes and clothes.

In case of fire: Wear self-contained breathing apparatus.

Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Suppress gases/vapours/mists with water spray jet.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

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

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation.

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

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.
national regulations

Further information on storage conditions

Vapours may form explosive mixtures with air.
storage temperature +5°C - +30°C.

7.3. Specific end use(s)

Laboratory use Laboratory chemical

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

according to Regulation (EC) No 1907/2006

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Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
85-44-9	Phthalic anhydride	1 -	- 12		TWA (8 h) STEL (15 min)	
110-86-1	Pyridine	5 10	15 30		TWA (8 h) STEL (15 min)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
110-86-1	pyridine			
Worker DNEL, acute	inhalation	systemic	7,5 mg/m ³	
Worker DNEL, long-term	dermal	systemic	0,14 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	0,42 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	0,6 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	0,07 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	2,5 mg/m ³	
Consumer DNEL, long-term	oral	systemic	0,07 mg/kg bw/day	
85-44-9	phthalic anhydride			
Worker DNEL, long-term	inhalation	systemic	32,2 mg/m ³	
Worker DNEL, long-term	dermal	systemic	10 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	8,6 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	5 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	5 mg/kg bw/day	
616-47-7	1-methylimidazole			
Worker DNEL, long-term	inhalation	systemic	7,9 mg/m ³	
Worker DNEL, long-term	dermal	systemic	2,25 mg/kg bw/day	

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PNEC values

CAS No	Substance	
Environmental compartment		Value
110-86-1	pyridine	
Freshwater		0,3 mg/l
Freshwater (intermittent releases)		3 mg/l
Marine water		0,03 mg/l
Freshwater sediment		3,2 mg/kg
Marine sediment		0,32 mg/kg
Micro-organisms in sewage treatment plants (STP)		2 mg/l
Soil		0,46 mg/kg
85-44-9	phthalic anhydride	
Freshwater		1 mg/l
Freshwater (intermittent releases)		5,6 mg/l
Marine water		0,1 mg/l
Freshwater sediment		3,8 mg/kg
Marine sediment		0,38 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,173 mg/kg
616-47-7	1-methylimidazole	
Freshwater		0,1 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		4,43 mg/kg
Marine sediment		0,443 mg/kg
Micro-organisms in sewage treatment plants (STP)		589,6 mg/l
Soil		0,825 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Suitable eye protection: goggles.

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact: No data available

By short-term hand contact

Trade name/designation: KCL 898 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,7 mm

Wearing time with occasional contact (splashes): > 240 min

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The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless / light yellow
Odour:	characteristic / stinging
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	~115 °C
Flammability:	not applicable
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	~20 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	not determined
pH-Value:	No data available
Viscosity / kinematic:	No data available
Water solubility:	No data available
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	No data available
Vapour pressure:	No data available
Density:	~1,05 g/cm³
Bulk density:	No data available
Relative vapour density:	not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

Vapours can form explosive mixtures with air.

Sustained combustibility:

Sustained combustibility

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

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Oxidizing properties

Not oxidising.

Other safety characteristics

Evaporation rate:	not determined
Solvent separation test:	No data available
Solvent content:	No data available
Solid content:	No data available
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
No data available:	
Viscosity / dynamic:	No data available
Flow time:	No data available

Further Information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable.

Vapours can form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent

Nitric acid

sulphuric acid

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Plastic articles

Rubber articles

10.6. Hazardous decomposition products

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide (CO₂), Carbon monoxide

Nitrogen oxides (NO_x)

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Harmful if inhaled.

Harmful in contact with skin.

Harmful if swallowed.

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ATEmix calculated

ATE (oral) 565,6 mg/kg; ATE (dermal) 1232 mg/kg; ATE (inhalation vapour) 13,36 mg/l; ATE (inhalation dust/mist) 1,821 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
110-86-1	pyridine				
	oral	LD50 > 800 - < 1600 mg/kg	Rat	Study report (1978)	Precedes establishment of guideline and
	dermal	LD50 > 1000 - < 2000 mg/kg	Rabbit	Study report (1973)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 4900 mg/l	Rat	Other company data (1984)	EPA OPPTS 870.1300
	inhalation dust/mist	ATE 1,5 mg/l			
85-44-9	phthalic anhydride				
	oral	LD50 1530 mg/kg	Rat	Study report (1978)	10 male rats/dose
616-47-7	1-methylimidazole				
	oral	LD50 ca. 1144 mg/kg	Rat	Study report (1966)	OECD Guideline 401
	dermal	LD50 400 - 640 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (phthalic anhydride)

May cause an allergic skin reaction. (phthalic anhydride)

Carcinogenic/mutagenic/toxic effects for reproduction

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

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards**Other information**

Irritant

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Dizziness

The product causes narcotic-like effects.

Vomiting

Allergic reactions

Dyspnoea

Cough

Circulatory collapse

Further information

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

SECTION 12: Ecological information**12.1. Toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method	
110-86-1	pyridine						
	Acute fish toxicity	LC50 > 560 - < 1000 mg/l	96 h	Danio rerio	Study report (1991)	OECD Guideline 203	
	Acute algae toxicity	ErC50 320 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1991)	OECD Guideline 201	
85-44-9	phthalic anhydride						
	Acute fish toxicity	LC50 > 99 mg/l	96 h	Oryzias latipes	Review article or handbook (2003)	OECD Guideline 203	
	Acute algae toxicity	ErC50 68 mg/l	72 h	Pseudokirchneriella subcapitata	Review article or handbook (2003)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 > 640 mg/l	48 h	Daphnia magna	Publication (1986)	Method is following the procedures descr	
	Fish toxicity	NOEC 10 mg/l	60 d	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety 2	Method: other: according to OECD Guideline	
	Crustacea toxicity	NOEC 16 mg/l	21 d	Daphnia magna	Review article or handbook (2003)	OECD Guideline 211	
	Acute bacteria toxicity	EC50 > 1000 mg/l ()	3 h	Activated sludge	Study report (1984)	ISO 8192	
616-47-7	1-methylimidazole						
	Acute fish toxicity	LC50 > 100 - < 215 mg/l	96 h	Leuciscus idus	Study report (1989)	other: DIN 38 412	
	Acute algae toxicity	ErC50 202,5 mg/l	72 h	Desmodesmus subspicatus	Study report (1990)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 267,94 mg/l	48 h	Daphnia magna	Study report (1989)	EU Method C.2	

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
110-86-1	pyridine	0,64
85-44-9	phthalic anhydride	1,6
616-47-7	1-methylimidazole	-0,19

BCF

CAS No	Chemical name	BCF	Species	Source
85-44-9	phthalic anhydride	3,4	calculated	Study report (2004)

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Discharge into the environment must be avoided.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Do not allow to enter into surface water or drains.

Do not empty into drains.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 2924

14.2. UN proper shipping name:

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (pyridine, phthalic anhydride)

14.3. Transport hazard class(es):

3

14.4. Packing group:

II

Hazard label:

3+8

Classification code:

FC

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

Hazard No:

338

Tunnel restriction code:

D/E

Inland waterways transport (ADN)**14.1. UN number or ID number:**

UN 2924

14.2. UN proper shipping name:

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (pyridine, phthalic anhydride)

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14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+8
Classification code:	FC
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2

Marine transport (IMDG)

14.1. UN number or ID number:	UN 2924
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (pyridine, phthalic anhydride)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+8
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-C

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 2924
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (pyridine, phthalic anhydride)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3+8
Special Provisions:	A3
Limited quantity Passenger:	0.5 L
Passenger LQ:	Y340
Excepted quantity:	E2
IATA-packing instructions - Passenger:	352
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	363
IATA-max. quantity - Cargo:	5 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	No
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14.6. Special precautions for user

Warning: Combustible liquid.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive 2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions:

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

Water hazard class (D):

2 - obviously hazardous to water

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Phthalic anhydride solution 180 g PSA + 30 g 1-methylimidazol + 1 l pyridin/l

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SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,9,12.

Abbreviations and acronyms

Flam. Liq. 2: Flammable liquids, hazard category 2

Acute Tox. 3: Acute toxicity, hazard category 3

Skin Corr. 1B: Skin corrosion, sub-category 1B

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Dam. 1: Serious eye damage, hazard category 1

Eye Irrit. 2: Eye irritation, hazard category 2

Resp. Sens. 1: Respiratory sensitisation, hazard category 1

Skin Sens. 1: Skin sensitisation, hazard category 1

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 4; H332	Calculation method
Acute Tox. 4; H312	Calculation method
Acute Tox. 4; H302	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Phthalic anhydride solution 180 g PSA + 30 g 1-methylimidazol + 1 l pyridin/l

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Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)