SAFETY DATA SHEET

Date of issue/Date of revision : 17 November 2021 **Version** : 1

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

1.1 Product identifier

Product name : PR1782S Thinner

Product code : PR1782S Thinner

Index number : 607-022-00-5

EC number : 205-500-4

REACH Registration number

Registration number	Legal entity
01-2119475103-46	-

CAS number : 141-78-6

Chemical formula : C4-H8-O2

Other means of identification

Acetic acid ethyl ester; Acetic acid, ethyl ester; Acetic ether; Ethyl ethanoate; Ethyl ester of acetic acid; Acetic ester; Blend, consisting of ethyl alcohol, ethyl acetate and aldehydes, higher alcohols and water; blend, consisting of ethyl alcohol, ethyl acetate and water; ethyl acetate ester; Ethyl acetate (I); Acetic acid ethyl ester (I)

Supplied by:
Sil-Mid Limited
Roman Park, Roman Way
Coleshill, West Midlands
B46 1HG. UK
T: 01675 432850
E: info@silmid.com

Emergency Telephone No. +44 (0)1675 432850
(Monday to Friday, 08:00 – 17:30 – GMT)

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

Identified uses
Use in coatings

Product use : Industrial applications.

Uses advised against : Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

PPG Coatings S.A., 7, Allée de la Plaine, Gonfreville l'Orcher, 76700 HARFLEUR,France,+33 (0)2 3553 5400
PPG Industries (UK) Ltd,3 Darlington Road,Shildon,Co Durham DL4 2QP, England,+44 (0) 1388 772 541

e-mail address of person responsible for this SDS : Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

Supplier

+44 (0) 1388 772 541

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mono-constituent substance

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

Flam. Liq. 2, H225
Eye Irrit. 2, H319
STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statements

Prevention : Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapour.

Response : IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage : Store in a well-ventilated place. Keep container tightly closed.

Disposal : Not applicable.

P280, P210, P261, P304 + P312, P305 + P351 + P338, P403 + P233

Hazardous ingredients : ethyl acetate

Supplemental label elements : Repeated exposure may cause skin dryness or cracking.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB :

PBT	P	B	T	vPvB	vP	vB
No	N/A	N/A	No	N/A	N/A	N/A

SECTION 2: Hazards identification

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.1 Substances : Mono-constituent substance

Product/ingredient name	Identifiers	% by weight	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 **See Section 16 for the full text of the H statements declared above.**	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent
[B] Impurity
[C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

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

Ingestion : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

SECTION 4: First aid measures

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Skin contact : Adverse symptoms may include the following:
irritation
dryness
cracking

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous combustion products : Decomposition products may include the following materials:
carbon oxides

5.3 Advice for firefighters

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities : Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
ethyl acetate	**EH40/2005 WELs (United Kingdom (UK), 1/2020).** STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. STEL: 1468 mg/m³ 15 minutes. TWA: 734 mg/m³ 8 hours.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
ethyl acetate	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m³	General population	Local
	DNEL	Long term Inhalation	367 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m³	General population	Local
	DNEL	Short term Inhalation	734 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	734 mg/m³	Workers	Local
	DNEL	Long term Inhalation	734 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	1468 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1468 mg/m³	Workers	Systemic

PNECs

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
ethyl acetate	- - - - - -	Fresh water Marine water Sewage Treatment Plant Fresh water sediment Marine water sediment Soil	0.24 mg/l 0.024 mg/l 650 mg/l 1.15 mg/kg dwt 0.115 mg/kg dwt 0.148 mg/kg dwt	Assessment Factors Assessment Factors Assessment Factors - - -

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Chemical splash goggles. Use eye protection according to EN 166.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Gloves : For prolonged or repeated handling, use the following type of gloves:

Recommended: butyl rubber

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection :

SECTION 8: Exposure controls/personal protection

Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. 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. Mask type: full-face mask half-face mask Filter type: organic vapour filter (Type A) particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid. [COLORLESS LIQUID WITH A PLEASANT FRUITY ODOR]
Colour	:	Colourless.
Odour	:	Characteristic.
Odour threshold	:	Not available.
pH	:	Not available.
Melting point/freezing point	:	-83.97°C (-119.1°F)
Initial boiling point and boiling range	:	>37.78°C
Flash point	:	Closed cup: -4°C
Evaporation rate	:	4.94 (butyl acetate = 1)
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Lower: 2.2% Upper: 11.5%
Vapour pressure	:	10.9 kPa (81.59 mm Hg)
Vapour density	:	3 (Air = 1)
Relative density	:	0.9
Solubility(ies)	:	Partially soluble in the following materials: cold water.
Water Solubility at room temperature	:	80 g/l [OECD 105]
Partition coefficient: n-octanol/ water	:	0.68
Auto-ignition temperature	:	426.67°C (800°F)
Decomposition temperature	:	Stable under recommended storage and handling conditions (see Section 7).
Viscosity	:	Dynamic (room temperature): 0.45 mPa·s Kinematic (40°C): <14 mm^2/s
Viscosity	:	< 30 s (ISO 6mm)
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties	:	Product does not present an oxidizing hazard.

9.2 Other information

Heat of combustion	:	-23515860 J/kg

SECTION 9: Physical and chemical properties

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.
Refer to protective measures listed in sections 7 and 8.

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

10.6 Hazardous decomposition products : Depending on conditions, decomposition products may include the following materials: carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethyl acetate	LD50 Dermal LD50 Oral	Rabbit Rat	>5 g/kg 5620 mg/kg	- -

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary

Skin : Not available.

Eyes : Not available.

Respiratory : Not available.

Sensitisation

Conclusion/Summary

Skin : Not available.

Respiratory : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
ethyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Ingestion : Can cause central nervous system (CNS) depression.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Ingestion : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
dryness
cracking

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

SECTION 11: Toxicological information

Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

Prolonged or repeated contact may dry skin and cause irritation. Avoid contact with skin and clothing.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
ethyl acetate	0.68	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
ethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 13: Disposal considerations

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1173	UN1173	UN1173	UN1173
14.2 UN proper shipping name	ETHYL ACETATE	ETHYL ACETATE	ETHYL ACETATE	Ethyl acetate
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID : None identified.

Tunnel code : (D/E)

ADN : None identified.

IMDG : None identified.

IATA : None identified.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not applicable.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	Regulatory data Regulatory data Regulatory data

Full text of abbreviated H statements

H225 H319 H336 EUH066	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Eye Irrit. 2 Flam. Liq. 2 STOT SE 3	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

History

SECTION 16: Other information

Date of issue/ Date of revision : 17 November 2021

Date of previous issue : No previous validation

Prepared by : EHS

Version : 1

Other information : Solvent.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance

Code : PR1782S Thinner

Product name : PR1782S Thinner

Section 1 - Title

Short title of the exposure scenario : 141-78-6 industrial

List of use descriptors : **Identified use name:** Use in coatings
Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC10, PROC13
Substance supplied to that use in form of: As such
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC04
Market sector by type of chemical product: PC09a
Article category related to subsequent service life: Not applicable.

Environmental contributing scenarios :

Health Contributing scenarios : **Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions -** PROC01
Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - PROC02
Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - PROC08a
Transfer of substance or mixture (charging and discharging) at dedicated facilities - PROC08b
Roller application or brushing - PROC10
Treatment of articles by dipping and pouring - PROC13

Number of the ES : 1

Industry Association : CEPE

Processes and activities covered by the exposure scenario : Manual application of paint indoors with brush or roller. Surface Treatment. Treatment of articles by dipping and pouring. Material transfers. Material storage. Low energy spreading, including cleaning of surfaces. Immersion operations. Treatment by dipping and pouring.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Product characteristics : liquid.
Colourless.
Odour: Characteristic.
Vapour pressure: 9,8 kPa

Concentration of substance in mixture or article : Covers percentage substance in the product up to 25%.
Handling and storage: Covers percentage substance in the product up to 100%

Amounts used : Source: 5,500 Tonnes/year
Total: 55,000 Tonnes/year

Frequency and duration of use : Continuous release: 300 days per year

Environment factors not influenced by risk management : Flow rate of receiving surface water (m^3/d): 18,000 (Default)

Other conditions affecting environmental exposure	:	Indoor use
Technical conditions and measures at process level (source) to prevent release	:	Do not allow to enter drains or watercourses. Dispose of contents and container in accordance with all local, regional, national and international regulations.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	Vapor recovery (e.g. adsorption) or other technique for reducing volatiles emissions (incineration, thermal oxidation) Efficiency of at least 87 %
Organisational measures to prevent/limit release from site	:	Avoid release to the environment. Disposal of wastes: Municipal Sewage Treatment Plant
Conditions and measures related to sewage treatment plant	:	Size of municipal sewage system/treatment plant (m^3/d): > 2000. Degradation effectiveness: 90 % Sludge is disposed of or recovered.
Conditions and measures related to external treatment of waste for disposal	:	Hazardous waste incineration Recycling possible. (Fuel.)

Contributing scenario controlling worker exposure for 2: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Product characteristics	:	liquid Colourless. Odour: Characteristic. Vapour pressure: 9,8 kPa
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 25%.
Physical state	:	liquid
Amounts used	:	Not available.
Frequency and duration of use/exposure	:	Frequency and duration of use/exposure Frequency: 4 days per week, 5 days per week (Covers exposure up to 240 days per year) Exposure duration: > 4 hours per day
Human factors not influenced by risk management	:	Exposed skin surface: Both hands: 960 cm^2
Other conditions affecting workers exposure	:	Outdoor
Technical conditions and measures at process level (source) to prevent release	:	Concentration of substance in product: Limit the substance content in the product to 25%.
Technical conditions and measures to control dispersion from source towards the worker	:	Local exhaust ventilation - efficiency of at least (Indoor): 95 %
Organisational measures to prevent/limit releases, dispersion and exposure	:	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Provide extract ventilation to points where emissions occur. Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection	:	Wear suitable gloves tested to EN374. Butyl rubber gloves.

Contributing scenario controlling worker exposure for 3: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Product characteristics	:	liquid Colourless. Odour: Characteristic. Vapour pressure: 9,8 kPa
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 25%.
Physical state	:	liquid
Amounts used	:	Not available.
Frequency and duration of use/exposure	:	Frequency and duration of use/exposure Frequency: 4 days per week, 5 days per week (Covers exposure up to 240 days per year) Exposure duration: > 4 hours per day
Human factors not influenced by risk management	:	Exposed skin surface: Both hands: 960 cm²
Other conditions affecting workers exposure	:	Indoor or outdoor use
Technical conditions and measures at process level (source) to prevent release	:	Concentration of substance in product: Limit the substance content in the product to 25%.
Technical conditions and measures to control dispersion from source towards the worker	:	Local exhaust ventilation - efficiency of at least (Indoor): 95 %
Organisational measures to prevent/limit releases, dispersion and exposure	:	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Provide extract ventilation to points where emissions occur. Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection	:	Wear suitable gloves tested to EN374. Butyl rubber gloves.

Contributing scenario controlling worker exposure for 4: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Product characteristics	:	liquid Colourless. Odour: Characteristic. Vapour pressure: 9,8 kPa
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 25%.
Physical state	:	liquid
Amounts used	:	Not available.
Frequency and duration of use/exposure	:	Frequency and duration of use/exposure Frequency: > 4 days per week, 5 days per week (Covers exposure up to 240 days per year) Exposure duration: 1-4 hours per day
Human factors not influenced by risk management	:	Exposed skin surface: Both hands: 960 cm²
Other conditions affecting workers exposure	:	Indoor or outdoor use
Technical conditions and measures at process level (source) to prevent release	:	Concentration of substance in product: Limit the substance content in the product to 25%.

Technical conditions and measures to control dispersion from source towards the worker	:	Local exhaust ventilation - efficiency of at least (Indoor): 95 %
Organisational measures to prevent/limit releases, dispersion and exposure	:	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Provide extract ventilation to points where emissions occur. Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection	:	Wear suitable gloves tested to EN374. Butyl rubber gloves.

Contributing scenario controlling worker exposure for 5: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Product characteristics	:	liquid Colourless. Odour: Characteristic. Vapour pressure: 9,8 kPa
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 25%.
Physical state	:	liquid
Amounts used	:	Not available.
Frequency and duration of use/exposure	:	Frequency and duration of use/exposure Frequency: 4 days per week, 5 days per week (Covers exposure up to 240 days per year) Exposure duration: > 4 hours per day
Human factors not influenced by risk management	:	Exposed skin surface: Both hands: 960 cm²
Other conditions affecting workers exposure	:	Indoor or outdoor use
Technical conditions and measures at process level (source) to prevent release	:	Concentration of substance in product: Limit the substance content in the product to 25%.
Technical conditions and measures to control dispersion from source towards the worker	:	Local exhaust ventilation - efficiency of at least (Indoor): 95 %
Organisational measures to prevent/limit releases, dispersion and exposure	:	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Provide extract ventilation to points where emissions occur. Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection	:	Wear suitable gloves tested to EN374. Butyl rubber gloves.

Contributing scenario controlling worker exposure for 6: Roller application or brushing

Product characteristics	:	liquid Colourless. Odour: Characteristic. Vapour pressure: 9,8 kPa
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 25%.
Physical state	:	liquid
Amounts used	:	Not available.

Frequency and duration of use/exposure	:	Frequency and duration of use/exposure Frequency: 4 days per week, 5 days per week (Covers exposure up to 240 days per year) Exposure duration: > 4 hours per day
Human factors not influenced by risk management	:	Exposed skin surface: Both hands: 960 cm²
Other conditions affecting workers exposure	:	Indoor or outdoor use
Technical conditions and measures at process level (source) to prevent release	:	Concentration of substance in product: Limit the substance content in the product to 25%.
Technical conditions and measures to control dispersion from source towards the worker	:	Local exhaust ventilation - efficiency of at least (Indoor): 95 %
Organisational measures to prevent/limit releases, dispersion and exposure	:	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Provide extract ventilation to points where emissions occur. Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection	:	Wear suitable gloves tested to EN374. Butyl rubber gloves.

Contributing scenario controlling worker exposure for 7: Treatment of articles by dipping and pouring

Product characteristics	:	liquid Colourless. Odour: Characteristic. Vapour pressure: 9,8 kPa
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 25%.
Physical state	:	liquid
Amounts used	:	Not available.
Frequency and duration of use/exposure	:	Frequency and duration of use/exposure Frequency: 4 days per week, 5 days per week (Covers exposure up to 240 days per year) Exposure duration: > 4 hours per day
Human factors not influenced by risk management	:	Exposed skin surface: Both hands: 960 cm²
Other conditions affecting workers exposure	:	Indoor or outdoor use
Technical conditions and measures at process level (source) to prevent release	:	Concentration of substance in product: Limit the substance content in the product to 25%.
Technical conditions and measures to control dispersion from source towards the worker	:	Local exhaust ventilation - efficiency of at least (Indoor): 95 %
Organisational measures to prevent/limit releases, dispersion and exposure	:	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Provide extract ventilation to points where emissions occur. Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection	:	Wear suitable gloves tested to EN374. Butyl rubber gloves.

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment): : ECETOC TRA environment v2.0 A&B-tables taken from TGD 2003

Exposure estimation and reference to its source : PEC Summary
Sewage treatment plant: 1,426 mg/l
Freshwater: 0,145 mg/l
Freshwater sediment: 0,193 mg/kg
Soil: 0,056 mg/kg
Marine water: 0,014 mg/l
Marine sediment: 0,019 mg/kg
Total: 0,006 mg/kg bw/day

PNEC Summary
Sewage treatment plant: 650 mg/l
Freshwater: 0,26 mg/l
Fresh water sediment: 1.25 mg/kg wwt
Soil: 0,24 mg/kg wwt
Marine water: 0,026 mg/l
Marine sediment: 0,125 mg/kg wwt
Total: 23,8 ppm

Emission days: 300 days per year
Local Amounts used: 1800 kg/day

Exposure estimation and reference to its source - Workers: 2: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Exposure assessment (human): : ECETOC TRA worker v2.0

Exposure estimation and reference to its source : Inhalation (mg/m³):
Exposure Estimation: 55,06
DNEL: 730

Dermal (mg/kg bw/day):
Exposure Estimation:1,37
DNEL: 63

Exposure estimation and reference to its source - Workers: 3: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Exposure assessment (human): : ECETOC TRA worker v2.0

Exposure estimation and reference to its source : Inhalation (mg/m³):
Exposure Estimation: 55,06
DNEL: 730

Dermal (mg/kg bw/day):
Exposure Estimation:1,37
DNEL: 63

Exposure estimation and reference to its source - Workers: 4: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Exposure assessment (human): : ECETOC TRA worker v2.0

Exposure estimation and reference to its source : Inhalation (mg/m³):
Exposure Estimation: 55,06
DNEL: 730

Dermal (mg/kg bw/day):
Exposure Estimation:1,37
DNEL: 63

Exposure estimation and reference to its source - Workers: 5: Transfer of substance or mixture (charging and discharging) at dedicated facilities

Exposure assessment (human):	:	ECETOC TRA worker v2.0
Exposure estimation and reference to its source	:	Inhalation (mg/m³): Exposure Estimation: 55,06 DNEL: 730 Dermal (mg/kg bw/day): Exposure Estimation:1,37 DNEL: 63

Exposure estimation and reference to its source - Workers: 6: Roller application or brushing

Exposure assessment (human):	:	ECETOC TRA worker v2.0
Exposure estimation and reference to its source	:	Inhalation (mg/m³): Exposure Estimation: 55,06 DNEL: 730 Dermal (mg/kg bw/day): Exposure Estimation:1,37 DNEL: 63

Exposure estimation and reference to its source - Workers: 7: Treatment of articles by dipping and pouring

Exposure assessment (human):	:	ECETOC TRA worker v2.0
Exposure estimation and reference to its source	:	Inhalation (mg/m³): Exposure Estimation: 55,06 DNEL: 730 Dermal (mg/kg bw/day): Exposure Estimation:1,37 DNEL: 63

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	:	ECETOC TRA worker v3
Health	:	ECETOC TRA worker v3

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	Not available.