Safety Data Sheet

THINNER AUTOREFINISHING SPEEDY

Safety Data Sheet dated 21/12/2022 version 3



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

1.1. Product identifier

Mixture identification:

Trade name: THINNER AUTOREFINISHING SPEEDY

Trade code: L0000740

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

Recommended use: Coatings and paints, thinners, paint removers

Thinner for coatings

Liquid

Professional uses

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: Lechler SpA - Via Cecilio, 17 - 22100 Como - CO - Italy

Telephone: +39031586111 First Email: safety@lechler.eu

1.4. Emergency telephone number

UNITED KINGDOM: Emergency Number 0044 1606738600 - This telephone number is available during office hours only (8.45-16.45).

SECTION 2: Hazards identification







2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 2 Highly flammable liquid and vapour.

Skin Irrit. 2 Causes skin irritation.

Repr. 2 Suspected of damaging fertility or the unborn child.

STOT SE 3 May cause drowsiness or dizziness.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 May be fatal if swallowed and enters airways. Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 1 of 16

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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

Contains

toluene

n-butyl acetate

2-ethoxy-1-methylethyl acetate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

Results of PBT and vPvB assessment Not a PBT, vPvB substance as per the criteria of the REACH Regulation. Endocrine disrupting properties-Toxicity The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Endocrine disrupting properties-Ecotoxicity The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: THINNER AUTOREFINISHING SPEEDY

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥40 - ≤50 %	toluene	CAS:108-88-3 EC:203-625-9 Index:601-021- 00-3	Flam. Liq. 2, H225; Skin Irrit. 2, H315; STOT RE 2, H373; Asp. Tox. 1, H304; Repr. 2, H361; STOT SE 3, H336	01-2119471310-51
≥30 - ≤40 %	n-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025- 00-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119485493-29
≥25 - ≤30 %	2-ethoxy-1-methylethyl acetate		Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475116-39

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eves contact:

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

Protect uninjured eye.

In case of Ingestion:

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 2 of 16

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at below 20 $^{\circ}$ C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
toluene CAS: 108-88-3	EU		Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm Behaviour Indicative 2006/15/EC
	EU		Identifies the possibility of significant uptake through the skin
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 191 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
n-butyl acetate CAS: 123-86-4	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	
	EU		Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Behaviour Indicative 2019/1831/EU
	ACGIH		Long Term: 50 ppm; Short Term: 150 ppm Eye and URT irr

Biological limit values

toluene Biological Indicator: O-Cresol; Sampling Period: End of turn

CAS: 108-88-3 Value: 0.5 mg/L; Medium: Urine

Remark: Argentina. Biological Exposure Indices

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 16 g/g creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: Prior to last shift of workweek

Value: 0.05 mg/L; Medium: Blood

Remark: Argentina. Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: At the end of a work week / at the end of a work day / at

the end of a shift

Value: 0.8 mg/L; Medium: Urine

Remark: Austria. Regulation on health surveillance in the workplace 2014

Biological Indicator: Toluene; Sampling Period: End of workday

Value: 250 μg/L; Medium: Blood

Remark: Austria. Regulation on health surveillance in the workplace 2014

Biological Indicator: Hippuric acid; Sampling Period: End of last day of the working day (recommended to

avoid the first day of the week)
Value: 25 g/g creatinine; Medium: Urine

Remark: Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 16 mmol/mmol creatinine; Medium: Urine

Remark: Bulgaria. Biological limit values

Biological Indicator: Toluene; Sampling Period: Before shift at end of workweek

Value: 0.05 mg/L; Medium: Blood Remark: Chile. Biological Limit Values

Biological Indicator: Toluene; Sampling Period: End of workday

Value: 30 μg/L; Medium: Urine Remark: Chile. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of workshift (after exposure has ended)

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 4 of 16

Value: 1 mol/mol creatinine; Medium: Urine

Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Hippuric acid; Sampling Period: End of workshift (after exposure has ended)

Value: 15 g/g creatinine; Medium: Urine

Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Hippuric acid; Sampling Period: End of workshift (after exposure has ended)

Value: 11 Millimoles per liter; Medium: Urine

Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Hippuric acid; Sampling Period: End of workshift (after exposure has ended)

Value: 2 g/l; Medium: Urine

Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Toluene; Sampling Period: End of workshift (15-30 min after exposure has ended)

Value: 20 mg/m³; Medium: Air at the end of exhalation

Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Toluene

Value: 5 mg/m³; Medium: Air at the end of exhalation

Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 3 mg/g Creatinine; Medium: Urine

Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological

Exposu

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 0.03 mg/L; Medium: Urine

Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological

Exposu

Biological Indicator: Toluene; Sampling Period: Prior to last shift of workweek

Value: 0.02 mg/L; Medium: Blood

Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological

Exposu

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 1085 micromol per litre; Medium: Blood Remark: Croatia. Biological Exposure Limits

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 1 mg/L; Medium: Blood

Remark: Croatia. Biological Exposure Limits

Biological Indicator: Toluene; Sampling Period: during exposure Value: 83 micromol per litre; Medium: Air at the end of exhalation

Remark: Croatia. Biological Exposure Limits

Biological Indicator: Toluene; Sampling Period: during exposure

Value: 20 ppm; Medium: Air at the end of exhalation

Remark: Croatia. Biological Exposure Limits

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 158 mol/mol creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 25 g/g creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 105 Millimoles per mole Creatinine; Medium: Urine

Remark: Croatia. Biological Exposure Limits

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 1 mg/g Creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 1600 mg/g Creatinine; Medium: Urine Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 1000 micromoles per millimole creatinine; Medium: Urine

Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 15 mg/g Creatinine; Medium: Urine

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 5 of 16

Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 16 micromoles per millimole creatinine; Medium: Urine

Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: Morning after working day

Value: 500 mg/L; Medium: Blood Remark: Finland. Biological limit values

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 600 μg/L; Medium: Blood Remark: TRGS 903 - Biological limit values

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift

Value: 1.5 mg/L; Medium: Urine

Remark: TRGS 903 - Biological limit values

Biological Indicator: O-Cresol; Sampling Period: After shift

Value: 1 mg/g Creatinine; Medium: Urine

Remark: Hungary. Permissible limit values of biological exposure (effect) indices

Biological Indicator: O-Cresol; Sampling Period: After shift Value: 105 micromoles per millimole creatinine; Medium: Urine

Remark: Hungary. Permissible limit values of biological exposure (effect) indices

Biological Indicator: Hippuric acid Value: 16 g/g creatinine; Medium: Urine

Remark: Israel. Safety at Work Regulations - Annex III Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: Within 2 h prior to end of shift at end of work week

Value: 0.6 mg/L; Medium: Blood

Remark: Occupational exposure limits based on biological monitoring (JSOH).

Biological Indicator: Toluene; Sampling Period: Within 2 h prior to end of shift at end of work week

Value: 0.06 mg/L; Medium: Urine

Remark: Occupational exposure limits based on biological monitoring (JSOH).

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 25 g/g creatinine; Medium: Urine

Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure

Limits

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 1 mg/L; Medium: venous blood

Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure

Limits

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 1 mg/g Creatinine; Medium: Urine

Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure

Limits

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 16 g/g creatinine; Medium: Urine Remark: Latvia. Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 0.05 mg/L; Medium: Blood Remark: Latvia. Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 0.5 mg/L; Medium: Urine

Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices

for work

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 16 g/g creatinine; Medium: Urine

Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices

for work

Biological Indicator: Toluene; Sampling Period: Before last turn of the working week

Value: 0.05 mg/L; Medium: Blood

Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices

for work

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 0.03 mg/L; Medium: Urine

Remark: New Zealand. Biological Exposure Indices

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 6 of 16

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 3 mg/g Creatinine; Medium: Urine

Remark: New Zealand. Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: Before shift at end of workweek

Value: 0.02 mg/L; Medium: Blood

Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 0.03 mg/L; Medium: Urine

Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 3 mg/g Creatinine; Medium: Urine

Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 2 g/l; Medium: Urine

Remark: Romania. Biological limit values

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 3 mg/L; Medium: Urine

Remark: Romania. Biological limit values

Biological Indicator: Toluene; Sampling Period: Prior to last shift of workweek

Value: 0.05 mg/L; Medium: Blood

Remark: Singapore. Biological Threshold Limit Values

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 600 μg/L; Medium: Blood Remark: Slovakia. Biological Limit Values

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 6517 micromol per litre; Medium: Blood Remark: Slovakia. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 2401 mg/L; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 13399 micromol per litre; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 1600 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 1010 micromoles per millimole creatinine; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 143 micromol per litre; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift

Value: 103 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 108 micromoles per millimole creatinine; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift

Value: 1.5 mg/L; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 600 micromol per litre; Medium: Blood

Remark: Slovenia. BAT-values

Biological Indicator: O-Cresol; Sampling Period: during long-term exposure: at the end of the work shift

after several consecutive workdays Value: 1.5 mg/L; Medium: Urine Remark: Slovenia. BAT-values

Biological Indicator: Hippuric acid; Sampling Period: End of turn

Value: 25 g/g creatinine; Medium: Urine

Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 7 of 16

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 1 mg/L; Medium: venous blood

Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 1 mg/g Creatinine; Medium: Urine

Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Toluene; Sampling Period: End of workday

Value: 0.08 mg/L; Medium: Urine

Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: O-Cresol; Sampling Period: End of workday

Value: 6 mg/g Creatinine; Medium: Urine

Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: Toluene; Sampling Period: prior to last shift of workweek

Value: 0.05 mg/L; Medium: Blood

Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: Hippuric acid; Sampling Period: In case of long-term exposure: after more than one

shift

Value: 2 g/g creatinine; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift

Value: 0.5 mg/L; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: toluol; Sampling Period: Immediately after exposure or after working hours

Value: 648 micromol per litre; Medium: Blood

Remark: Svizzera. Lista di valori BAT

Biological Indicator: Hippuric acid; Sampling Period: In case of long-term exposure: after more than one

shift

Value: 126 mmol/mmol creatinine; Medium: Urine

Remark: Svizzera. Lista di valori BAT

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift

Value: 462 micromol per litre; Medium: Urine

Remark: Svizzera. Lista di valori BAT

Biological Indicator: toluol; Sampling Period: Immediately after exposure or after working hours

Value: 600 μg/L; Medium: Blood Remark: Svizzera. Lista di valori BAT

Biological Indicator: Hippuric acid; Sampling Period: End of workday

Value: 16 g/g creatinine; Medium: Urine

Remark: Uruguay. Health surveillance of workers - Biological Exposure Indices (BEI).

Biological Indicator: O-Cresol; Sampling Period: End of workday

Value: 0.5 mg/L; Medium: Urine

Remark: Uruguay. Health surveillance of workers - Biological Exposure Indices (BEI).

Biological Indicator: Toluene; Sampling Period: Prior to last shift of workweek

Value: 0.02 mg/L; Medium: Blood

Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 0.03 mg/L; Medium: Urine

Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 3 mg/g Creatinine; Medium: Urine

Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: O-Cresol; Sampling Period: End of workday

Value: 0.5 mg/L; Medium: Urine Remark: VE.Biological Exposure Limits

Biological Indicator: Hippuric acid; Sampling Period: End of workday

Value: 16 g/g creatinine; Medium: Urine Remark: VE.Biological Exposure Limits

Biological Indicator: Toluene; Sampling Period: Prior to last workday of workweek

Value: 0.05 mg/L; Medium: Blood Remark: VE.Biological Exposure Limits

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 8 of 16

Predicted No Effect Concentration (PNEC) values

CAS: 108-88-3

Exposure Route: Fresh Water; PNEC Limit: 0,68 mg/l

Exposure Route: Marine water; PNEC Limit: 0,68 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 16,39 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 16,39 mg/kg

Exposure Route: Soil; PNEC Limit: 2,89 mg/kg

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0,68 mg/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 13,61 mg/l

n-butyl acetate CAS: 123-86-4

Exposure Route: Fresh Water; PNEC Limit: 0,18 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0,36 mg/l

Exposure Route: Marine water; PNEC Limit: 0,01 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0,98 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0,09 mg/kg

Exposure Route: Soil; PNEC Limit: 0,09 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 35,6 mg/l

2-ethoxy-1-methylethyl

CAS: 54839-24-6

acetate

Exposure Route: Fresh Water; PNEC Limit: 2 mg/l

Exposure Route: Marine water; PNEC Limit: 0,2 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 8,2 mg/l Exposure Route: Marine water sediments; PNEC Limit: 0,67 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 62,5 mg/l

Exposure Route: Oral; PNEC Limit: 117 mg/l

Derived No Effect Level (DNEL) values

toluene Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)

CAS: 108-88-3 Consumer: 226 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Consumer: 226 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 56,5 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 8,13 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Consumer: 226 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)

Worker Professional: 384 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Professional: 384 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 192 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 192 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 384 mg/kg

n-butyl acetate Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects CAS: 123-86-4

Worker Industry: 300 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Industry: 600 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Industry: 300 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Page n. 9 of 04/09/2024 **Production Name** THINNER AUTOREFINISHING SPEEDY Date

Worker Industry: 600 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Industry: 11 mg/kg dry weight (d.w.)

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Industry: 11 mg/kg dry weight (d.w.)

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 35,7 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Consumer: 300 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Consumer: 35,7 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Consumer: 300 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Consumer: 6 mg/kg dry weight (d.w.)

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Consumer: 6 mg/kg dry weight (d.w.)

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 2 mg/kg dry weight (d.w.)

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 2 mg/kg dry weight (d.w.)

2-ethoxy-1-methylethyl

acetate

CAS: 54839-24-6

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 2366 mg/m3; Worker Professional: 2366 mg/kg; Consumer: 1420 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 152 mg/m3; Worker Professional: 152 mg/m3; Consumer: 181 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 103 mg/kg; Worker Professional: 103 mg/kg; Consumer: 62 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 13,1 mg/kg

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Colour: Colourless Odour: N.A. pH: Not Relevant

Kinematic viscosity: <= 20,5 mm2/sec (40 °C)

Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.

Flash point: < 23°C

Upper/lower flammability or explosive limits: N.A.

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 10 of 16

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 0.89 g/cm3
Solubility in water: N.A.
Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: The product is classified Flam. Liq. 2 H225 Kinematic viscosity m2/s (40° C) <= 20,5 mm2/sec (40° C)

Viscosity:

Particle characteristics:

Particle size: N.A.

9.2. Other information

Evaporation rate: N.A. Miscibility: N.A. Conductivity: N.A.

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin Irrit. 2(H315)

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

The product is classified: Repr. 2(H361)

h) STOT-single exposure

The product is classified: STOT SE 3(H336)

The product is classified: STOT RE 2(H373)

j) aspiration hazard

The product is classified: Asp. Tox. 1(H304)

Toxicological information on main components of the mixture:

toluene a) acute toxicity LD50 Oral Rat = 5000 mg/kg

LC50 Inhalation Rat = 25,7 mg/l 4hLD50 Skin Rabbit = 12267 mg/kg

n-butyl acetate a) acute toxicity LD50 Oral Rat = 10760 mg/kg OECD Test Guideline 423

LC50 Inhalation > 20, mg/l 4h

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 11 of 16

LD50 Skin Rabbit > 14112, mg/kg OECD Test Guideline 402

2-ethoxy-1-methylethyl a) acute toxicity acetate

acute toxicity LD50 Oral Rat > 5000

OECD Test Guideline 401

OECD Test Guideline 403

11.2. Information on other hazards

Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

LC50 Inhalation Mist Rat > 6,99 4h

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological prope	Ident. Numb.	Ecotox Data
Component toluene		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus kisutch (coho salmon) = 5,5 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates Ceriodaphnia dubia (water flea) = 3,78 mg/L 48 H $$
		e) Plant toxicity: EC50 Algae algae = 134 mg/L 96 H
		b) Aquatic chronic toxicity : NOEC Fish Oncorhynchus kisutch (coho salmon) = 1,39 mg/L 40 D $$
n-butyl acetate	CAS: 123-86-4 - EINECS: 204- 658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas (fathead minnow) = 18 mg/L 96 H OECD Test Guideline 203
		a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) = 44 mg/L 48 H OECD Test Guideline 202
		e) Plant toxicity : EC50 Algae Selenastrum capricornutum (green algae) = 397 mg/L 72 H OECD Test Guideline 201
		c) Bacteria toxicity : IC50 Microorganisms Tetrahymena pyriformis = 356 mg/L 40 H $$
2-ethoxy-1-methylethyl acetate	CAS: 54839-24- 6 - EINECS: 259-370-9 - INDEX: 603- 177-00-8	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) = 140 mg/L 96 H OECD Test Guideline 203
		a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) = 110 mg/L 48 H OECD Test Guideline 202
		e) Plant toxicity : EC50 Algae Desmodesmus subspicatus (green algae) > 100 mg/L 72 H OECD Test Guideline 201 $$
		c) Bacteria toxicity : EC10 Microorganisms Pseudomonas putida = 560 mg/L 16 H $$
		b) Aquatic chronic toxicity : NOEC Invertebrates Daphnia magna (Water flea) $>= 100 \text{ mg/L } 21 \text{ D}$
		a) Aquatic acute toxicity : NOEC Fish Oryzias latipes (Orange-red killifish) = $47,5 \text{ mg/L}$ 96 H
		e) Plant toxicity : NOEC Algae Desmodesmus subspicatus (green algae) >= 100 mg/L 72 H

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 12 of 16

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT RELATED MATERIAL IATA-Technical name: PAINT RELATED MATERIAL IMDG-Technical name: PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR-Class: 3
IATA-Class: 3
IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: II IATA-Packing group: II IMDG-Packing group: II

14.5. Environmental hazards

Toxic ingredients quantity: 0.00 Very toxic ingredients quantity: 0.00

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt: ADR-Label: 3

ADR - Hazard identification number: 33 ADR-Special Provisions: 163 367 640C 650

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 353 IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category B

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 367

14.7. Maritime transport in bulk according to IMO instruments

N.A

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

regulation (LO) II. 2010/009 (ATT 11 CLI)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 48, 75

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes) to Annex 1, part 1

Product belongs to category: P5c 5000 50000

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

2: Hazard to waters

SVHC Substances:

No data available

Dir. 2010/75/EC (VOC directive)

Volatile Organic compounds - VOCs = 100.00 %

Volatile Organic compounds - VOCs = 890.00 g/L

Estimated Total Content of Water 0.00 %

Estimated Total Solid Content 0.00 %

Storage Class (TRGS 510)

Storage Class (TRGS 510) Flammable liquid substances

Classification according to VbF

Classification according to VbF A I - Flash point less than 21 °C, at 15 °C not miscible in water

Mal-Code (Denmark)

Mal-Code (Denmark) Mal Factor Unit of Measure Revision Status / Number Regulatory Base

5 - 3 3.341 m3 air/10 g 1993 Administrative determined MAL-

Factors

Biocides

REGULATION (EC) No 528/2012

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 14 of 16

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Description

Code	Description		
EUH066	Repeated exposure may cause skin dryness or cracking.		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H336	May cause drowsiness or dizziness.		
H361	Suspected of damaging fertility or the unborn child.		
H373	May cause damage to organs through prolonged or repeated exposure.		
	, 3 3 1	3	
Code	Hazard class and hazard category	Description	
Code 2.6/2			
	Hazard class and hazard category	Description	
2.6/2	Hazard class and hazard category Flam. Liq. 2	Description Flammable liquid, Category 2	
2.6/2 2.6/3	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3	Description Flammable liquid, Category 2 Flammable liquid, Category 3	
2.6/2 2.6/3 3.10/1	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Asp. Tox. 1	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Aspiration hazard, Category 1	
2.6/2 2.6/3 3.10/1 3.2/2	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Asp. Tox. 1 Skin Irrit. 2	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Aspiration hazard, Category 1 Skin irritation, Category 2	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
2.6/2	On basis of test data
3.2/2	Calculation method
3.7/2	Calculation method
3.8/3	Calculation method
3.9/2	Calculation method
3.10/1	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

 ${\it CLP: Classification, Labeling, Packaging.}$

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 15 of 16

DMEL: Derived Minimal Effect Level DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 5: Firefighting measures
- SECTION 6: Accidental release measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 10: Stability and reactivity
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information

Date 04/09/2024 Production Name THINNER AUTOREFINISHING SPEEDY Page n. 16 of 16