Safety Data Sheet

according to Regulation (EC) No 1907/2006

Compound Yellow Fine

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

1.1. Product identifier

Compound Yellow Fine

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

Use of the substance/mixture

Automotive care products

1.3. Details of the supplier of the safety data sheet

Company name:	Techtronic Industries GmbH
Street:	Max-Eyth-Str. 10
Place:	D-71364 Winnenden
Telephone:	+49(0) 719512-0
Contact person:	Maximilian Wieler
e-mail:	maximilian.wieler@tti-emea.com
Internet:	www.ttigroup.com

1.4. Emergency telephone number:

+49 (0) 7141 29299 - 0 (8h - 16h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

according to Regulation (EC) Nr. 1272/2008

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

according to Regulation (EC) Nr. 1272/2008

Hazard components for labelling

This product has been treated with biocides for preservation.

Precautionary statements

P102	Keep out of reach of children.

Special labelling of certain mixtures

EUH208	Contains mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2 -methyl-2H-isothiazol-3-one (EG No. 220-239-6) (3:1).. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (according to Regulation (EC) Nr. 1272/2008)			
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics			10 - < 15 %
	918-481-9		01-2119457273-39	
	Asp. Tox. 1; H304 EUH066			
8042-47-5	white mineral oil (petroleum)			1 - < 5 %
	232-455-8		01-2119487078-27	
	Asp. Tox. 1; H304			
55965-84-9	mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG No. 220-239-6) (3:1).			< 0.1 %
	611-341-5	613-167-00-5		
	Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
	918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	10 - < 15 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg		
8042-47-5	232-455-8	white mineral oil (petroleum)	1 - < 5 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg		
55965-84-9	611-341-5	mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG No. 220-239-6) (3:1).	< 0.1 %
	inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = >141 mg/kg; oral: LD50 = 66 mg/kg Skin Corr. 1C; H314: >= 0,6 - 100 Skin Irrit. 2; H315: >= 0,06 - < 0,6 Eye Dam. 1; H318: >= 0,6 - 100 Eye Irrit. 2; H319: >= 0,06 - < 0,6 Skin Sens. 1A; H317: >= 0,0015 - 100 M acute; H400: M=100 M chron.; H410: M=100		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary. When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a doctor.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Dry extinguishing powder. Carbon dioxide (CO2). Water spray jet. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

No special measures are necessary.

5.3. Advice for firefighters

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

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

For non-emergency personnel

Ventilate affected area. Wear personal protection equipment (refer to section 8). Do not breathe mist/vapours/spray.

For emergency responders

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Collect spillage.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary. Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Advice on protection against fire and explosion

No special fire protection measures are necessary. Only use the material in places where open light, fire and other flammable sources can be kept away.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not smoke. When

using do not eat or drink. Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Further information on handling

Take off contaminated clothing. Wash hands before breaks and after work. When using do not smoke. When using do not eat or drink. Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed.

Hints on joint storage

Oxidising agent. Strong acid. Strong alkali. Pyrophoric or self-heating substances

Further information on storage conditions

Recommended storage temperature: 15-25°C

7.3. Specific end use(s)

Automotive care products

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1344-28-1	Aluminium oxides, respirable dust	-	4		TWA (8 h)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1344-28-1	Aluminuim oxide			
Worker DNEL, long-term		inhalation	local	15,63 mg/m³
Consumer DNEL, long-term		oral	systemic	3,29 mg/kg bw/day
8042-47-5	white mineral oil (petroleum)			
Consumer DNEL, long-term		inhalation	systemic	35 mg/m³
Consumer DNEL, long-term		dermal	systemic	93 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	160 mg/m³
Worker DNEL, long-term		dermal	systemic	220 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	40 mg/kg bw/day
1344-28-1	aluminium oxide			
Worker DNEL, long-term		inhalation	local	15,6 mg/m³
Consumer DNEL, long-term		oral	systemic	6,2 mg/kg bw/day
56-81-5	glycerol			
Consumer DNEL, long-term		oral	systemic	229 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	56 mg/m³
Consumer DNEL, long-term		inhalation	local	33 mg/m³

PNEC values

CAS No	Substance
Environmental compartment	Value
1344-28-1	Aluminuim oxide
Freshwater	0,0749 mg/l
Micro-organisms in sewage treatment plants (STP)	20 mg/l
1344-28-1	aluminium oxide
Freshwater	0,0749 mg/l
Micro-organisms in sewage treatment plants (STP)	20 mg/l
56-81-5	glycerol
Freshwater	0,885 mg/l
Marine water	0,00885 mg/l
Freshwater sediment	3,3 mg/kg
Marine sediment	0,33 mg/kg
Soil	0,141 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves must be worn.
Recommended glove articles: HyFlex® Foam (EN 420, EN 388 (3131)).

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

No special environmental measures are necessary. Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	grey
Odour:	characteristic

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	100 °C
Flash point:	>61 °C
Flammability	
Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	0,5 vol. %
Upper explosion limits:	7 vol. %
Auto-ignition temperature:	>200 °C
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
pH-Value (at 20 °C):	7,8
Viscosity / dynamic: (at 20 °C)	20000-25000 mPa·s
Water solubility:	completely miscible
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	0,6 hPa
Density (at 20 °C):	1,04 g/cm³

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties

Not oxidising.

Other safety characteristics

Solvent content:	25,72 %
Solid content:	not determined
Evaporation rate:	not determined

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.

10.5. Incompatible materials

Oxidising agent. Strong acid. Strong alkali.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in CLP Regulation

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics					
	oral	LD50 mg/kg	>5000	Rat	ECHA	OECD TG 401
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA	OECD TG 402
8042-47-5	white mineral oil (petroleum)					
	oral	LD50 mg/kg	>5000	Rat	ECHA	OECD 401
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA	OECD 402
55965-84-9	mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG No. 220-239-6) (3:1).					
	oral	LD50	66 mg/kg	Rat	Thor	
	dermal	LD50 mg/kg	>141		Thor	
	inhalation vapour	ATE	0,5 mg/l			
	inhalation dust/mist	ATE	0,05 mg/l			

Irritation and corrosivity

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

Sensitising effects

Contains mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG No. 220-239-6) (3:1).. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No information available.

Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics						
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA	OECD 203
	Acute algae toxicity	ErC50 mg/l	>1000	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202
8042-47-5	white mineral oil (petroleum)						
	Acute fish toxicity	LL50 mg/l	>1000	96 h	Leuciscus idus (golden orfe)	ECHA	OECD 203
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EL50 mg/l	>100	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202
	Algae toxicity	NOEC mg/l	>=100	72 d	Pseudokirchneriella subcapitata	ECHA	OECD 201
55965-84-9	mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG No. 220-239-6) (3:1).						
	Acute fish toxicity	LC50 mg/l	0,22	96 h	Oncorhynchus mykiss (Rainbow trout)	Thor	OECD 203
	Acute algae toxicity	ErC50 mg/l	0,048	72 h	Pseudokirchneriella subcapitata	Thor	OECD 201
	Acute crustacea toxicity	EC50	0,1 mg/l	48 h	Daphnia magna (Big water flea)	Thor	OECD 202
	Fish toxicity	NOEC mg/l	0,098	28 d	Oncorhynchus mykiss (Rainbow trout)	Thor	OECD 210
	Algae toxicity	NOEC mg/l	0,0012	3 d	Pseudokirchneriella subcapitata	Thor	OECD 201
	Crustacea toxicity	NOEC mg/l	0,004	21 d	Daphnia magna (Big water flea)	Thor	OECD 211
	Acute bacteria toxicity	(EC50 mg/l)	7,92	3 h	Activated sludge		OECD 209

12.2. Persistence and degradability

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

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics			
	OECD 301 F	80%	28	ECHA
	Readily biodegradable (according to OECD criteria).			
8042-47-5	white mineral oil (petroleum)			
	OECD 301F	31 %	28	ECHA
	Not readily biodegradable (according to OECD criteria)			
55965-84-9	mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG No. 220-239-6) (3:1).			
	OECD 301 A	>70 %	28	Thor
	Readily biodegradable (according to OECD criteria).			
	OECD 301 D	>60%		Thor
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
8042-47-5	white mineral oil (petroleum)	>4

BCF

CAS No	Chemical name	BCF	Species	Source
55965-84-9	mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2-methyl-2H-isothiazol-3-one (EG No. 220-239-6) (3:1).	3,16		EPIWIN, S 1177

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.
The product has not been tested.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

Further information

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special measures are necessary.

14.7. Maritime 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 regulatory information

Restrictions on use (REACH, annex XVII):

Entry , Entry 75

2010/75/EU (VOC):	15,771 % (164,014 g/l)
2004/42/EC (VOC):	15,79 % (164,218 g/l)
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2 -methyl-2H-isothiazol-3-one (EG No. 220-239-6) (3:1).. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Further Information

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

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Formulation or re-packing	F	-	-	8a, 9	2	-	-	
2	Automotive care products, Industrial uses	IS	-	-	7, 10, 17	4	-	-	
3	Automotive care products, Professional uses	PW	-	-	10, 11, 17	8a	-	-	
4	Automotive care products, Consumer use	C	-	31	-	8a	-	-	

LCS: Life cycle stages
SU: Sectors of use
PC: Product categories
PROC: Process categories
ERC: Environmental release categories
AC: Article categories
TF: Technical functions

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