

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 02.10.2018

Product code: 00156-0090

Page 1 of 12

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

##### 1.1. Product identifier

TIP TOP SOLVENT LIQUID BUFFER SPRAY

**Art.-No.**

505 9692, 505 9693

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

**Use of the substance/mixture**

Cleaning agent

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

Company name: REMA TIP TOP AG

Street: Gruber Strasse 65

Place: D-85586 Poing

Telephone: +49 (0) 8121 / 707 - 100

Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

##### 1.4. Emergency telephone

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

**number:**

In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

#### SECTION 2: Hazards identification

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

**Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

##### 2.2. Label elements

**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Ethyl acetate

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

Hydrocarbons, C6, isoalkanes, &lt; 3% n-hexane

**Signal word:**

Danger

**Pictograms:****Hazard statements**

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H319

Causes serious eye irritation.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP SOLVENT LIQUID BUFFER SPRAY**

Revision date: 02.10.2018

Product code: 00156-0090

Page 2 of 12

H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing spray.
P403	Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**2.3. Other hazards**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

In use, may form flammable/explosive vapour-air mixture.

Heating will cause pressure rise with risk of bursting.

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

Preparation with aliphatic hydrocarbons (free of aromatic hydrocarbons)

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 02.10.2018

Product code: 00156-0090

Page 3 of 12

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
141-78-6	Ethyl acetate			25 - 50 %
	205-500-4	607-022-00-5	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes			10 - 25 %
	927-510-4		01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
106-97-8	Butane			10 - 25 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Compressed gas; H220 H280			
74-98-6	Propane			10 - 25 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Compressed gas; H220 H280			
64742-49-0	Hydrocarbons, C6, isoalkanes, < 3% n-hexane			10 - 25 %
	931-254-9		01-2119484651-34	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
75-28-5	Isobutane			2,5 - 10 %
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1, Compressed gas; H220 H280			
110-82-7	Cyclohexane			< 1 %
	203-806-2	601-017-00-1	01-2119463273-41	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410			
110-54-3	n-Hexane			< 1 %
	203-777-6	601-037-00-0	01-2119480412-44	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 2; H225 H361f H315 H336 H373 H304 H411			

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

#### Further Information

According to note P to the regulation (EC) no. 1272/2008, "Naphta (petroleum)" is not to be classified as "carcinogenic" or "mutagen" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove contaminated soaked clothing immediately.  
Take away from danger area and lay down affected person.

##### After inhalation

Move to fresh air in case of accidental inhalation of vapours.  
In the event of symptoms refer for medical treatment.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 02.10.2018

Product code: 00156-0090

Page 4 of 12

#### After contact with skin

Wash off with soap and plenty of water.  
Consult a doctor if skin irritation persists.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

#### After ingestion

Do not induce vomiting.  
Rinse mouth.  
Never give anything by mouth to an unconscious person.  
Summon a doctor immediately.  
Induce vomiting only upon the advice of a physician.

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

Causes serious eye irritation.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.  
Attention. Beware, danger of aspiration.

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

Treat symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

##### Unsuitable extinguishing media

Full water jet.

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

Fire may produce:  
carbon monoxide and carbon dioxide

#### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.  
Protective suit.

#### Additional information

Heating will cause pressure rise with risk of bursting.  
Cool containers at risk with water spray jet.  
Vapours can form an explosive mixture with air.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### SECTION 6: Accidental release measures

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

In case of vapour formation use respirator.  
Use only explosion-proof equipment.  
Ensure adequate ventilation.  
Use personal protective clothing.  
Keep away sources of ignition.

#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.  
Do not discharge into the subsoil/soil.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 02.10.2018

Product code: 00156-0090

Page 5 of 12

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Shovel into suitable container for disposal.

#### **6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Avoid contact with the skin and the eyes.  
Use only in thoroughly ventilated areas.

##### **Advice on protection against fire and explosion**

Do not smoke - volatile.  
Keep away from open flames, hot surfaces and sources of ignition.  
Pay attention to anti-explosion rules.  
Do not spray on a naked flame or any other incandescent material.

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

##### **Requirements for storage rooms and vessels**

Protect against direct sun radiation.  
Keep container tightly closed.  
Use only in well-ventilated areas.  
Avoid temperatures above 50°C.

##### **Advice on storage compatibility**

Incompatible with oxidizing agents.

##### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

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

Cleaning agent

### SECTION 8: Exposure controls/personal protection

#### **8.1. Control parameters**

##### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### **8.2. Exposure controls**

##### **Protective and hygiene measures**

Avoid contact with eyes and skin.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 02.10.2018

Product code: 00156-0090

Page 6 of 12

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Remove and wash contaminated clothes before re-use.

Do not breath vapours or spray mist.

#### Eye/face protection

Safety goggles with side protection (EN 166).

Eye wash bottle with pure water (EN 15154).

#### Hand protection

Protective gloves resistant to chemicals made of nitrile, minimum coat thickness 0.4 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> made by [www.kcl.de](http://www.kcl.de).

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

#### Skin protection

Long sleeved clothing (DIN EN ISO 6530)

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

## SECTION 9: Physical and chemical properties

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

Physical state:	Aerosol
Colour:	Colourless
Odour:	Fruity

#### Test method

pH-Value: n.d.

#### Changes in the physical state

Melting point: n.d.

Initial boiling point and boiling range: n.d.

Sublimation point: n.d.

Softening point: n.d.

Pour point: n.d.

Flash point: < 0 °C

#### Flammability

Solid: n.a.

Gas: n.d.

#### Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits: n.d.

Upper explosion limits: n.d.

Ignition temperature: n.d.

#### Auto-ignition temperature

Solid: n.a.

Gas: n.d.

Decomposition temperature: n.d.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP SOLVENT LIQUID BUFFER SPRAY**

Revision date: 02.10.2018

Product code: 00156-0090

Page 7 of 12

**Oxidizing properties**

Not fire-promoting.

Vapour pressure: 3000 hPa  
(at 20 °C)Vapour pressure: < 10000 hPa  
(at 50 °C)Density (at 20 °C): 0,658 g/cm<sup>3</sup>

Bulk density: n.a.

Water solubility: Immiscible OECD 116  
(at 20 °C)**Solubility in other solvents**

n.d.

Partition coefficient: n.d.

Viscosity / dynamic: n.d.

Viscosity / kinematic: n.d.

Flow time: n.d.

Vapour density: n.d.

Evaporation rate: n.d.

Solvent separation test: n.d.

Solvent content: n.d.

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with oxidizing agents.

**10.4. Conditions to avoid**

Vapours may form explosive mixture with air.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Heating will cause pressure rise with risk of bursting.

**10.5. Incompatible materials**

oxidizing agents

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 02.10.2018

Product code: 00156-0090

Page 8 of 12

Based on available data, the classification criteria are not met.  
No toxicological data available.

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes  
LD50/oral/rat: > 5840 mg/kg (OECD 401)  
LD50/dermal/rat: > 2920 mg/kg (OECD 402)  
LC50/inhalation/rat: > 23,3 mg/l/4 h

Hydrocarbons, C6, isoalkanes, < 3% n-hexane  
LD50/oral/rat: 16570 mg/kg (OECD 401)  
LD50/dermal/rat: 3350 mg/kg (OECD 402)  
LC50/inhalation/rat: 259354 mg/m<sup>3</sup>/4 h

Ethyl acetate  
LD50/oral/rat: 4935 mg/kg  
LD50/dermal/rat: > 5000 mg/kg  
LC50/inhalation/rat: 30 mg/l/4 h

#### Irritation and corrosivity

Causes serious eye irritation.  
Causes skin irritation.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

May cause drowsiness or dizziness. (Ethyl acetate; Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes;  
Hydrocarbons, C6, isoalkanes, < 3% n-hexane)

#### 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.

#### Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

#### Practical experience

#### Other observations

High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.  
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecological data are not available.  
Toxic to aquatic life with long lasting effects.  
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes  
LC50/Oncorhynchus mykiss/96 h = 13,4 mg/kg  
NOEC/Oncorhynchus mykiss/28 d = 1,534 mg/l  
EC50/Daphnia magna/48 h = 3,0 mg/l  
NOEC/Daphnia magna/21 h = 0,17 mg/l  
ErC50/Pseudokirchneriella subcapitata/48 h = 20 mg/l  
Hydrocarbons, C6, isoalkanes, < 3% n-hexane  
LC50/Oncorhynchus mykiss/96 h = 18,27 mg/l  
NOEC/Oncorhynchus mykiss/28 d = 4,089 mg/l



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 02.10.2018

Product code: 00156-0090

Page 9 of 12

EC50/Daphnia magna/48 h = 31,9 mg/l  
NOEC/Daphnia magna/21 h = 7,138 mg/l  
ErC50/Pseudokirchneriella subcapitata/48 h = 3,034 mg/l  
Ethyl acetate  
LC50/EC50/EC50 : > 100 mg/l  
Cyclohexane  
EC50/Daphnia magna/48 h = 0,9 mg/l  
IC50/Selenastrum capricornutum/72 h > 4 mg/l  
n-Hexane  
LC50/Fish/96 h = 1 - 10 mg/kg  
EC50/Daphnia magna/48 h = 1 - 10 mg/kg

#### **12.2. Persistence and degradability**

No data available

#### **12.3. Bioaccumulative potential**

No data available

#### **12.4. Mobility in soil**

No data available

#### **12.5. Results of PBT and vPvB assessment**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

#### **12.6. Other adverse effects**

Hazardous water pollutant.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

Can be incinerated, when in compliance with local regulations.  
Where possible recycling is preferred to disposal.

##### **Waste disposal number of waste from residues/unused products**

150111 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers; hazardous waste

##### **Contaminated packaging**

Offer empty spray cans to an established disposal company.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 02.10.2018

Product code: 00156-0090

Page 10 of 12

Limited quantity: 1 L / 30 kg  
Excepted quantity: E0  
Transport category: 2  
Tunnel restriction code: D

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Limited quantity: 1 L / 30 kg  
Excepted quantity: E0

#### Marine transport (IMDG)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS (Hydrocarbons)  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



Marine pollutant: Yes  
Limited quantity: 1 L / 30 kg  
Excepted quantity: E0  
EmS: F-D, S-U

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



Limited quantity Passenger: 30 kg G  
Passenger LQ: Y203  
Excepted quantity: E0  
IATA-packing instructions - Passenger: 203  
IATA-max. quantity - Passenger: 75 kg  
IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

#### 14.5. Environmental hazards

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP SOLVENT LIQUID BUFFER SPRAY

Revision date: 02.10.2018

Product code: 00156-0090

Page 11 of 12

ENVIRONMENTALLY HAZARDOUS: yes



#### **14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

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

The transport takes place only in approved and appropriate packaging.

### 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 57: Cyclohexane

2004/42/EC (VOC):

658 g/l

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

P3a FLAMMABLE AEROSOLS

##### **National regulatory information**

Employment restrictions:

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

#### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### **Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

#### **Relevant H and EUH statements (number and full text)**

H220 Extremely flammable gas.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP SOLVENT LIQUID BUFFER SPRAY**

Revision date: 02.10.2018

Product code: 00156-0090

Page 12 of 12

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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