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

1.1. Product identifier

Product code : Lavatute
Trades code : A39-035
Product line: Tintolav

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

Liquid detergent with high degreasing power for workwear
Sectors of use:
Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Tintolav s.r.l. - Via M. D' Antona 7 - 10028 Trofarello (TO) Tel. 011/649.68.27 Fax 011/649.67.42

Email: info@tintolav.com - Sito internet: www.tintolav.com

Email tecnico competente: a.conedera@tintolav.com

National contact: Malta: Emergency Ambulance 112
Accident & Emergency Department 2545 4030

1.4. Emergency telephone number

The UK National Poisons Emergency number +44 (0)870 600 6266
London: Emergency 24 hour telephone +44 (0) 207188 0100

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS05, GHS07

Hazard Class and Category Code(s):
Skin Corr. 1A, Skin Sens. 1

Hazard statement Code(s):
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.

Corrosive product: causes severe skin burns and eye damage.
The product, if brought into contact with skin can cause skin sensitization.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
GHS05, GHS07 - Danger

Hazard statement Code(s):
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:
Prevention
P261 - Avoid breathing vapours.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
Disposal
P501 - Dispose of contents / container in accordance with local and national regulations.

Contains:
2-Butoxyethanol , Fatty alcohol ethoxylate, Potassium dodecylbenzenesulfonate
0,01% of the mixture consists of components whose toxicity is unknown.

Contains (Reg.EC 648/2004):
5% < 15% anionic surfactants, non-ionic surfactants,< 5% perfumes, Dye, EDTA and salts thereof

For professional use only

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACh
Potassium dodecylbenzenesulfonate	> 5 <= 10%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1, H318		27177-77-1	248-296-2	
Fatty alcohol ethoxylate	> 5 <= 10%	Acute Tox. 4, H302; Eye Dam. 1, H318		64425-86-1		02-2119548515-35-0000
2-Butoxyethanol	> 1 <= 5%	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332	603-014-00-0	111-76-2	203-905-0	

Substance	Concentration	Classification	Index	CAS	EINECS	REACh
Steareth-21	<= 0,1%	Skin Irrit. 2, H315; Eye Dam. 1, H318		9005-00-9	500-017-8	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde - FEMA 0	<= 0,1%	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Aquatic Chronic 3, H412		68039-49-6	268-264-1	

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:
Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product).:
Take contaminated clothing Immediately off.
Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.
In case of contact with skin, wash immediately with water and soap
Consult a physician immediately

Direct contact with eyes (of the pure product).:
Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately
Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:
Drink water with egg white; do not give bicarbonate.
Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

No data available.

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

If skin irritation or rash occurs: Get medical advice/attention.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:
Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:
Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus
Safety helmet and full protective suit.
The spray water can be used to protect the people involved in the extinction
You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)
Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Leave the area surrounding the spill or release. Do not smoke
Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:
Wear mask, gloves and protective clothing. Suitable: LaTeX, nitrile, PVC
Eliminate all unguarded flames and possible sources of ignition. No smoking.
Provision of sufficient ventilation.
Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.
If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.
Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:
Rapidly recover the product, wear a mask and protective clothing
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.
Prevent it from entering the sewer system.

6.3.2 For cleaning up:
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves/protective clothing/eye protection/face protection.
In residential areas do not use on large surfaces.
At work do not eat or drink.
Contaminated work clothing should not be allowed out of the workplace.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and `direct exposure of sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:
Handle with extreme caution.
Store in a well ventilated place away from heat sources.

Public domain (administration, education, entertainment, services, craftsmen):
Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:
2-Butoxyethanol:
TLV: (as TWA) 20 ppm A3 (approved for the animal carcinogen with unknown relevance to humans); (ACGIH 2004).
Mak: 20 ppm 98 mg/m peak limitation Category: II (4); skin absorption (H); Risk group for pregnancy: C; (DFG 20024).

8.2. Exposure controls

Appropriate engineering controls:
Industrial Manufacturing:
No specific monitoring foreseen

Public domain (administration, education, entertainment, services, craftsmen):
No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection
When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other
When handling the pure product wear full protective skin clothing.

(c) Respiratory protection
Not needed for normal use.

(d) Thermal hazards
No hazard to report

Environmental exposure controls:
Use according to good working practices to avoid pollution into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	yellowish liquid	
Odour	characteristic	
Odour threshold	not determined	
pH	11	
Melting point/freezing point	not determined	
Initial boiling point and boiling range	not determined	
Flash point	> 100 °C	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	
Vapour density	not determined	
Relative density	1,000 - 1,020	
Solubility	completely soluble in water	
Water solubility	complete	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

Content of VOC ready to use condition: 4,06 %

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, inorganic sulfide, strong reducing agents.
It can generate toxic gases to contact with inorganic solfide, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = 5.214,2 mg/kg
ATE(mix) dermal = 10.000,0 mg/kg
ATE(mix) inhal = 55,3 mg/l/4 h

(a) acute toxicity: 2,4-dimethylcyclohex-3-ene-1-carbaldehyde: LD 50 ORAL (mg/kg) : >4000
ORGANISM : RAT

LD 50 DERMAL (mg/kg) : >5000
ORGANISM : RABBIT
(b) skin corrosion/irritationCorrosive product: causes severe skin burns and eye damage.
2-Butoxyethanol: not irritating
2,4-dimethylcyclohex-3-ene-1-carbaldehyde: TEST : ACUTE DERMAL IRRITATION
ORGANISM : RABBIT
(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage.
2-Butoxyethanol: irritating
(d) respiratory or skin sensitization: The product, if brought into contact with skin can cause skin sensitization.
2,4-dimethylcyclohex-3-ene-1-carbaldehyde: SENSITIZATION (ANIMAL): SENSITIZING
TEST : SKIN SENSITIZATION
ORGANISM : GUINEA PIG

SENSITIZATION (HUMAN) : NOT SENSITIZING
TEST : HRIPT
AT 10.00 (%) IN PETLM
(e) germ cell mutagenicity: based on available data, the classification criteria are not met.
(f) carcinogenicity: based on available data, the classification criteria are not met.
(g) reproductive toxicity: based on available data, the classification criteria are not met.
(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
(i) specific target organ toxicity (STOT) repeated exposurebased on available data, the classification criteria are not met.
(j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:
Potassium dodecylbenzenesulfonate:
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Fatty alcohol ethoxylate:
LD50 (rat) Oral (mg/kg body weight) = 3100

2-Butoxyethanol:

Acute oral toxicity LD50 rat: 470 mg/kg; literature value
LD50 rabbit: 300 mg/kg; literature value
Acute inhalation toxicity LC50 rat: 450 mg/l; ; 4 h; literature value
LCLo rat: 18,000 mg/m3; ; 7 h; literature value
Acute dermal toxicity LD50 rabbit: 220 mg/kg; literature value
LD50 (rat) Oral (mg/kg body weight) = 1150
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 400
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 2,21

Steareth-21:
LD50 (rat) Oral (mg/kg body weight) = 15000

2,4-dimethylcyclohex-3-ene-1-carbaldehyde:
LD50 (rat) Oral (mg/kg body weight) = 4000
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:
Fatty alcohol ethoxylate:
Ittiotossicit:
LC50 (96 h) 1-10 mg/l, Brachydanio rerio
Aquatic invertebrates:
EC50 (48 h) 1-10 mg/l Daphnia magna
Aquatic plants:
EC50 (72 h) 1-10 mg/l Scenedesmus subspicatus
Microorganisms/effects on activated sludge:
CE10 > 1,000 mg/l, activated sludge (DEV-L2)
Chronic toxic to aquatic invertebrates:
NOEC (21 d), 0.33 mg/l Daphnia magna
C(E)L50 (mg/l) = 1

2-Butoxyethanol:
Ecotoxicity effects
Toxicity to fish LC50 Poecilia reticulata: 983 mg/l; 7 d; literature value
LC50 Bluegill sunfish: 1,490 mg/l; 96 h; literature value
LC50 Pimephales promelas: 2,137 mg/l; 96 h; literature value
Oncorhynchus mykiss (rainbow trout): > 1,000 mg/l; 96 h; literature value
Toxicity to daphnia and other aquatic invertebrates.
Daphnia magna: 1,720 mg/l; 24 h; literature value
C(E)L50 (mg/l) = 500

Steareth-21:
LC50/83d > Oncohynchus mykiss-5.6 mg/l
C(E)L50 (mg/l) = 5,6

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:
Fatty alcohol ethoxylate:
Disposal considerations:

> = 90% the bismuth active substance (OECD guideline 303A)
60% > CO2 formation of theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, c. 4-C)
Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION 14. Transport information

14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION 15. Regulatory information

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

No data available.

15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 3.2 Mixtures, 4.1. Description of first aid measures, 4.3. Indication of any immediate medical attention and special treatment needed, 6.1. Personal precautions, protective equipment and emergency procedures, 7.1. Precautions for safe handling, 8.1. Control parameters, 9.2. Other information, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 13.1. Waste treatment methods

Description of the hazard statements exposed to point 3
H302 = Harmful if swallowed.
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H312 = Harmful in contact with skin.
H319 = Causes serious eye irritation.
H332 = Harmful if inhaled.
H412 = Harmful to aquatic life with long lasting effects.

Classification based on data of all mixture components

Main normative references:
Directive 1999/45/EC
Directive 2001/60/EC
Regulation 1272/2008/EC
Regulation 2010/453/EC

** The information contained herein is based on our knowledge at the date above.
Related solely to the product and do not constitute a guarantee of a particular quality.
It is the duty of the user to ensure that these are appropriate and complete information regarding the specific use intended.
This data sheet cancels and replaces any previous edition.