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

1.1 Product identifier

Trade name IP Surface Cleaner Pro

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

No further relevant information available.
Application of the substance / the mixture Solvents

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Spandex Group
Aegertweg 4
CH-8305 Dietlikon
www.spandex.com

Informing department: Product safety department

1.4 Emergency telephone number:

Medical Emergency information in case of poisoning:
Poison Information Center Mainz - 24h - Phone: +49 (0) 6131 19240 (advisory service in German or Englisch language)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms

GHS02 GHS07

Signal word Warning

Hazard-determining components of labelling:
propan-2-ol
Hazard statements
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

(Contd. on page 2)

(Contd. of page 1)

H336 May cause drowsiness or dizziness.

Precautionary statements

P210	*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
P261	*Avoid breathing dust/fume/gas/mist/vapours/spray.*
P280	*Wear protective gloves/protective clothing/eye protection/face protection.*
P303+P361+P353	*IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P337+P313	*If eye irritation persists: Get medical advice/attention.*

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: *Not applicable.*

vPvB: *Not applicable.*

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: *Mixture of the substances listed below with harmless additions (aqueous solution).*

Dangerous components:		
CAS: 67-63-0 *EINECS: 200-661-7* *Reg.nr.: 01-2119457558-25*	*propan-2-ol* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336*	*50-70%*
CAS: 111-76-2 *EINECS: 203-905-0* *Reg.nr.: 01-2119475108-36*	*2-butoxyethanol* *Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319*	*2.5-10%*

Regulation (EC) No 648/2004 on detergents / Labelling for contents	
perfumes ((R)-p-mentha-1,8-diene)	*<5%*

Additional information *For the wording of the listed hazard phrases refer to section 16.*

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: *Instantly remove any clothing soiled by the product.*

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact

Wash skin with water using soap if available.If persistant irritation occurs, obtain medical attention.

After eye contact

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

(Contd. on page 3)

Trade name IP Surface Cleaner Pro

(Contd. of page 2)

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
For safety reasons unsuitable extinguishing agents *Water with a full water jet.*

5.2 Special hazards arising from the substance or mixture
Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.

5.3 Advice for firefighters
Protective equipment: *See section 8.*
Additional information
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Endangered containers in the surrounding area should be cooled with a water-hose.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep off unprotected persons
Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.

6.2 Environmental precautions:
Prevent material from reaching sewage system, holes and cellars.
Dilute with much water.
If large amounts are released, the authorities must be informed.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections *Danger of explosion*

*
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

(Contd. on page 4)

(Contd. of page 3)

If the product is delivered in plastic containers, the allowed temperature to empty the container has to be 5 Kelvin below the Flash point.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Protect against direct sunlight, other sources of heat and ignition.
Keep containers tightly closed. Store in cool, dry conditions.

Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water harzardous substances

Information about storage in one common storage facility:

Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.

Further information about storage conditions: *Keep container tightly sealed.*

7.3 Specific end use(s) *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:

Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:	
CAS: 67-63-0 propan-2-ol (50-100%)	
WEL	*Short-term value: 1250 mg/m³, 500 ppm* *Long-term value: 999 mg/m³, 400 ppm*
CAS: 111-76-2 2-butoxyethanol (2.5-10%)	
WEL	*Short-term value: 246 mg/m³, 50 ppm* *Long-term value: 123 mg/m³, 25 ppm* *Sk, BMGV*

DNELs		
CAS: 67-63-0 propan-2-ol		
Oral	*DNEL (population)*	*26 mg/kg bw/day (Long-term - systemic effects)*
Dermal	*DNEL (worker)*	*888 mg/kg bw/day (Long-term - systemic effects)*
	DNEL (population)	*319 mg/kg bw/day (Long-term - systemic effects)*
Inhalative	*DNEL (worker)*	*500 mg/m³ (Long-term - systemic effects)*
	DNEL (population)	*89 mg/m³ (Long-term - systemic effects)*

PNECs	
CAS: 67-63-0 propan-2-ol	
PNEC aqua	*140.9 mg/l (fresh water)*
	140.9 mg/l (marine water)
PNEC sediment	*552 mg/kg dw (fresh water)*
	552 mg/kg dw (marine water)
PNEC soil	*28 mg/kg dw (soil)*
PNEC STP	*2251 mg/l (STP (sewage treatment plant))*

(Contd. on page 5)

Trade name IP Surface Cleaner Pro

(Contd. of page 4)

Ingredients with biological limit values:	
CAS: 111-76-2 2-butoxyethanol (2.5-10%)	
BMGV	240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid

Additional information: *The lists that were valid during the compilation were used as basis.*

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from food, beverages and fodder.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Gases, fumes and aerosols should not be inhaled.

Breathing equipment: *Not necessary if room is well-ventilated.*

Protection of hands:

Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR, recommended thickness of the material: ≥ 0.4 mm, penetration time: ≥ 480 min.
Butylrubber, BR, recommended thickness of the material: ≥ 0.5 mm, penetration time: ≥ 480 min.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: *Tightly sealed safety glasses.*

Body protection:

Standard proctective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear inpenetrable protective clothing against this solvent.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	*Fluid*
Colour:	*Orange*
Smell:	*Characteristic*
Odour threshold:	*Not determined.*
pH-value at 20 °C:	*ca. 11*

(Contd. on page 6)

Trade name IP Surface Cleaner Pro

(Contd. of page 5)

Change in condition	
Melting point/freezing point:	*Not determined*
Initial boiling point and boiling range:	*> 82 °C*
Flash point:	*23 °C*
Inflammability (solid, gaseous)	*Not applicable.*
Ignition temperature:	*425 °C*
Decomposition temperature:	*Not determined.*
Self-inflammability:	*Product is not selfigniting.*
Explosive properties:	*Product is not explosive. However, formation of explosive air/ steam mixtures is possible.*
Critical values for explosion:	
Lower:	*1.1 Vol %*
Upper:	*12.0 Vol %*
Vapour pressure at 20 °C:	*48 hPa*
Density at 20 °C	*0.869 g/cm³*
Relative density	*Not determined.*
Vapour density	*Not determined.*
Evaporation rate	*Not determined.*
Solubility in / Miscibility with	
Water:	*Fully miscible*
Partition coefficient: n-octanol/water:	*Not determined.*
Viscosity:	
dynamic:	*Not determined.*
kinematic:	*Not determined.*
9.2 Other information	*No further relevant information available.*

SECTION 10: Stability and reactivity

10.1 Reactivity *No further relevant information available.*
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions *No dangerous reactions known*
10.4 Conditions to avoid *Avoid all sources of ignition: heat, sparks, open flames.*
10.5 Incompatible materials: *strong oxidizing agents*
10.6 Hazardous decomposition products:
Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.
Formation of carbon monoxide and carbon dioxide in case of fire.

(Contd. on page 7)

Trade name IP Surface Cleaner Pro

(Contd. of page 6)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LD/LC50 values that are relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	35350 mg/kg (guinea pig)
Dermal	LD50	25000 mg/kg (rabbit)
Inhalative	LC 50 / 4 h	250 mg/l (rat)

Primary irritant effect:
Skin corrosion/irritation At prolonged contact with product a slight irritation might be possible.
Serious eye damage/irritation
Causes serious eye irritation.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure
May cause drowsiness or dizziness.
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.

*

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Additional ecological information:
General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
Recommendation
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
If possible, send to be recycled, otherwise burn or deposit in a certified facility.

(Contd. on page 8)

(Contd. of page 7)

Waste disposal key number:
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

Uncleaned packagings: *Disposal must be made according to official regulations.*
Recommendation:
After complete emptying and cleaning, send to be reconditioned or recycled.
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.
Caution: Leftovers in the containers may cause the risk of explosion.
Uncleaned containers should not be perforated, cut or welded.
Recommended cleaning agent: *Water, if necessary with cleaning agent.*

SECTION 14: Transport information

14.1 UN-Number	
ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name	
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Kemler Number:	30
EMS Number:	F-E,S-E
Stowage Category	A
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

(Contd. on page 9)

Trade name IP Surface Cleaner Pro

(Contd. of page 8)

Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S., 3, III

*
SECTION 15: Regulatory information

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

TSCA (Toxic Substances Control Act)

All ingredients are listed.

Canadian Domestic Substances List (DSL)

All ingredients are listed.

Philippines Inventory of Chemicals and Chemical Substances

All ingredients are listed.

Chinese Chemical Inventory of Existing Chemical Substances

All ingredients are listed.

Australian Inventory of Chemical Substances

All ingredients are listed.

Korean Existing Chemical Inventory

CAS: 67-63-0	propan-2-ol	KE-29363
CAS: 111-76-2	2-butoxyethanol	KE-04134
CAS: 7664-41-7	ammonia, anhydrous	KE-01625
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	KE-24397
CAS: 5392-40-5	Citral	KE-11579

New Zealand Inventory of Chemicals

All ingredients are listed.

Existing Chemical Substances (Japan)

CAS: 67-63-0	propan-2-ol	2-207
CAS: 111-76-2	2-butoxyethanol	2-2424
CAS: 7664-41-7	ammonia, anhydrous	1-391

(Contd. on page 10)

Trade name IP Surface Cleaner Pro

(Contd. of page 9)

CAS: 5989-27-5	(R)-p-mentha-1,8-diene	3-2245
CAS: 5392-40-5	Citral	2-515

REGULATION (EC) No 1907/2006 ANNEX XVII *Conditions of restriction: 3, 40*

National regulations

Information about limitation of use:
Employment restrictions concerning young persons must be observed.

Decree to be applied in case of technical fault:
Materialgroup 3 (flammable liquids) mixing-swell to be observed
Technical instructions (air):

Class	Share in %
NK	50-100

15.2 Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.

Department issuing data specification sheet: *see item 1: Informing department*
Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
LEV: Local Exhaust Ventilation
RPE: Respiratory Protective Equipment
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC and RCR= Estimated Exposition/DNEL)
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
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2

(Contd. on page 11)

Trade name IP Surface Cleaner Pro

(Contd. of page 10)

Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
**** Data compared to the previous version altered.***