Safety data sheet
according to 1907/2006/EC, Article 31

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

*1.1 Product identifier
*Trade name: TA INDICATOR - PHENOLPHTHALEIN FREE

*Article number: TAIND1000
*Registration number
A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
*1.2 Relevant identified uses of the substance or mixture and uses advised against
*Product category For experiments, research, or testing purposes only. Prohibited of use for other purposes.
*Application of the substance / the mixture Laboratory Chemicals

*1.3 Details of the supplier of the safety data sheet
*Manufacturer/Supplier:
Reagecon Diagnostics Ltd.
Shannon Free Zone,
Shannon,
Co. Clare,
Ireland.
Tel +353 61 472622
Fax +353 61 472642

*Further information obtainable by contacting: sds@reagecon.ie
*1.4 Emergency telephone number:
National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC
For Ireland call +(353)-19014670
For Outside Ireland call +1 703-741-5970 / 1-800-424-9300 CCN849800

SECTION 2: Hazards identification

*2.1 Classification of the substance or mixture
*Classification according to Regulation (EC) No 1272/2008


flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Eye Irrit. 2 H319 Causes serious eye irritation.

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


GHS02 GHS07

*Signal word Danger

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***Hazard statements**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
***Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

***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 substances listed below with nonhazardous additions.

***Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6	ethyl alcohol Flam. Liq. 2, H225; Eye Irrit. 2, H319	50-100%
CAS: 78-93-3 EINECS: 201-159-0	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≤2.5%

SECTION 4: First aid measures

***4.1 Description of first aid measures**
***After inhalation:**
Provide fresh air, warmth and rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Obtain medical attention if any discomfort continues.
***After skin contact:** Generally the product does not irritate the skin.
***After eye contact:**
Promptly wash eyes with plenty of water for up to 15 minutes. Open eyes wide apart and rinse well to remove any contact lenses. Do not remove contact lenses by hand. Continue to rinse. Get medical attention if symptoms persist.
***After swallowing:** If symptoms persist consult doctor.
***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, sand, extinguishing powder. Do not use water.
***For safety reasons unsuitable extinguishing agents:**
Water

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Water with full jet
***5.2 Special hazards arising from the substance or mixture** No further relevant information available.*
5.3 Advice for firefighters
Protective equipment:
Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers

SECTION 6: Accidental release measures

***6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment as described in Section 8 below. Keep unprotected persons away.
***6.2 Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
***6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
***6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

***7.1 Precautions for safe handling**
Keep receptacles tightly sealed.
No special precautions are necessary if used correctly.
***Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

***7.2 Conditions for safe storage, including any incompatibilities**
***Storage:**
***Requirements to be met by storerooms and receptacles:** Store in a cool location.*
***Information about storage in one common storage facility:** Not required.*
***Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
***7.3 Specific end use(s)** No further relevant information available.*

SECTION 8: Exposure controls/personal protection

***8.1 Control parameters**

***Ingredients with limit values that require monitoring at the workplace:**	
CAS: 64-17-5 ethyl alcohol	
WEL	*Long-term value: 1920 mg/m³, 1000 ppm*
CAS: 78-93-3 butanone	
WEL	*Short-term value: 899 mg/m³, 300 ppm* *Long-term value: 600 mg/m³, 200 ppm* *Sk, BMGV*

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*Ingredients with biological limit values:	
CAS: 78-93-3 butanone	
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

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

*8.2 Exposure controls
*Appropriate engineering controls No further data; see section 7.
*Individual protection measures, such as personal protective equipment
*General protective and hygienic measures: Wash hands before breaks and at the end of work.
*Respiratory protection:
Not required.
Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as back up to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
*Hand protection
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Always ensure that gloves are inspected before use.
Selection of protective gloves must include consideration of the penetration times along with rates of diffusion and degradation. The selected glove should comply with the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.
*Material of gloves
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.
Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
*Penetration time of glove material
In the absence of data above, the exact break through time has to be sourced from the manufacturer of the protective gloves and has to be observed.
*Eye/face protection



Tightly sealed goggles: Use equipment for eye protection tested and approved under appropriate government standards
such as NIOSH (US) or EN 166(EU)

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SECTION 9: Physical and chemical properties

*9.1 Information on basic physical and chemical properties	
*General Information	
*Physical state	Liquid
*Colour:	According to product specification
*Odour:	Characteristic
*Odour threshold:	Not determined.
*Melting point/freezing point:	Undetermined.
*Boiling point or initial boiling point and boiling range	78 °C
*Flammability	Highly flammable.
*Lower and upper explosion limit	
*Lower:	3.5 Vol %
*Upper:	15 Vol %
*Flash point:	13 °C
*Auto-ignition temperature:	425 °C
*Decomposition temperature:	Not determined.
*pH	Not determined.
*Viscosity:	
*Kinematic viscosity	Not determined.
*Dynamic:	Not determined.
*Solubility	
*water:	Not miscible or difficult to mix.
*Partition coefficient n-octanol/water (log value)	Not determined.
*Vapour pressure at 20 °C:	59 hPa
*Density and/or relative density	
*Density:	Not determined.
*Relative density	Not determined.
*Vapour density	Not determined.

*9.2 Other information	
*Appearance:	
*Form:	Liquid
*Important information on protection of health and environment, and on safety.	
*Ignition temperature:	Product is not selfigniting.
*Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
*Solvent content:	
*Organic solvents:	51.9 %
*Change in condition	
*Evaporation rate	Not determined.

*Information with regard to physical hazard classes	
*Explosives	Void
*Flammable gases	Void
*Aerosols	Void
*Oxidising gases	Void
*Gases under pressure	Void
*Flammable liquids	Highly flammable liquid and vapour.
*Flammable solids	Void
*Self-reactive substances and mixtures	Void
*Pyrophoric liquids	Void
*Pyrophoric solids	Void
*Self-heating substances and mixtures	Void
*Substances and mixtures, which emit flammable gases in contact with water	Void

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***Oxidising liquids**	Void
***Oxidising solids**	Void
***Organic peroxides**	Void
***Corrosive to metals**	Void
***Desensitised explosives**	Void

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** No further relevant information available.
***10.5 Incompatible materials:** No further relevant information available.
***10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

***11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
***Acute toxicity** Based on available data, the classification criteria are not met.

***LD/LC50 values relevant for classification:**		
CAS: 67-63-0 PROPAN-2-OL AR.		
Oral	LD50	4,570 mg/kg (rat)
Dermal	LD50	13,400 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

***Serious eye damage/irritation** Causes serious eye irritation.
***11.2 Information on other hazards**

***Endocrine disrupting properties**		
CAS: 78-93-3	butanone	List II

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.
***12.5 Results of PBT and vPvB assessment**
***PBT:** Not applicable.
***vPvB:** Not applicable.
***12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
***12.7 Other adverse effects**
***Additional ecological information:**
***General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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SECTION 13: Disposal considerations

***13.1 Waste treatment methods**
***Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

***Uncleaned packaging:**
***Recommendation:** Disposal must be made according to official regulations.*

SECTION 14: Transport information

***14.1 UN number or ID number**	
***ADR, IMDG, IATA**	UN1170
***14.2 UN proper shipping name**	
***ADR**	1170 ETHANOL (ETHYL ALCOHOL)
	1170 ETHANOL (ETHYL ALCOHOL)
***IMDG**	ETHANOL (ETHYL ALCOHOL)
***IATA**	ETHANOL
***14.3 Transport hazard class(es)**	
***ADR, IMDG, IATA**	



***Class**	3 Flammable liquids.
***Label**	3
***14.4 Packing group**	
***ADR, IMDG, IATA**	II
***14.5 Environmental hazards:**	
***Marine pollutant:**	No
***14.6 Special precautions for user**	Warning: Flammable liquids.
***Hazard identification number (Kemler code):**	33
***EMS Number:**	F-E,S-D
***Stowage Category**	A
***14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
***Transport/Additional information:**	
***ADR**	
***Limited quantities (LQ)**	1L
***Transport category**	2
***Tunnel restriction code**	D/E
***UN "Model Regulation":**	UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II

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SECTION 15: Regulatory information

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

***Regulated explosives precursors**
None of the ingredients is listed.

***Regulated poisons**
None of the ingredients is listed.

***Reportable explosives precursors**
None of the ingredients is listed.

***Reportable poisons**
None of the ingredients is listed.

***Directive 2012/18/EU**
***Named dangerous substances - ANNEX I** None of the ingredients is listed.
***Seveso category** P5c FLAMMABLE LIQUIDS
***Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
***Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

***National regulations:**

***Breakdown regulations:**

Class	Share in %
Wasser	47.9
NK	51.9

***Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
***15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Relevant Phrases:**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

***Department issuing SDS:** Health and Safety
***Contact:** sds@reagecon.ie
***Abbreviations and acronyms:**
UK REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)
ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3