

## 1.0 Identification of the substance / preparation and the company / undertaking

**1.1 Product Name**  
Impulse / Pulsa Cleaner

**1.2 Supplier**  
ITW Construction Products  
Fleming Way  
Crawley  
West Sussex RH10 9DP  
England

**1.3 Emergency Telephone Number**  
44 (0) 1293 523372

## 2.0 Composition / information on ingredients

**2.1 Hazardous substances present on their own (present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)**  
INDEX 603-117-00-0; CAS 67-63-0; CE 200-661-7; PROPAN-2-OL  
Concentration >=25.00% and <50.00% Symbol: Xi F R: 11-36-67

**2.2 Other substances representing a hazard**  
INDEX 606-001-00-8; CAS 67-64-1; CE 200-662-2; ACETONE  
Concentration >=10.00% and <25.00% Symbol: Xi F R: 11-36-66-67  
A2651519 CAS 64742-49-0; CE 265-151-9; NAPHTHA (PETROLEUM),  
HYDROTREATED LIGHT Concentration >=10.00% and <25.00%  
Symbol: Xn N F R: 11-65-67-8-51/53

**2.3 Substances present at a concentration below the minimum danger threshold**  
No known substance in this category present.

**2.4 Other substances with occupational exposure limits**  
INDEX 601-003-00-5; CAS 74-98-6; CE 200-827-9; PROPANE  
Concentration >=2.50% and <10.00% Symbol: F+ R: 12  
INDEX 601-004-00-0; CAS 106-97-8; CE 203-448-7; BUTANE AND  
ISOBUTANE Concentration >=10.00% and <25.00% Symbol: F+

## 3.0 Hazards identification

This product is classed: extremely flammable.  
Possibility of irritation to the eyes and skin.  
Vapours may cause drowsiness and dizziness.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Other data**  
Pressurized container.

## 4.0 First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person.

**4.1 In the event of exposure by inhalation**  
If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.  
Make use of reanimation technics.  
A prolonged clinic supervision can be useful.  
Move the patient to free air at rest.

**4.2 In the event of splashes or contact with eyes**  
Wash thoroughly with soft, clean water for 15 minutes, holding the eyelids open.  
Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

**4.3 In the event of contact with skin**  
Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

**4.4 In the event of swallowing**  
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep still.  
DO NOT induce vomiting. Call a doctor immediately and show him the label.

## 5.0 Fire fighting measures

Chemical powders, carbon dioxide and other extinguishing gases are suitable for small fires.

**5.1 Recommended extinguishing agents**  
Carbon dioxide, chemical powders, foams and other extinguishing gases. In the event of a fire, use specifically suitable extinguishing agents. Never use water.

**5.2 Extinguishing agents that must not be used**  
Keep packages near the fire cool, to prevent pressurised containers from bursting.  
Prevent the effluent of fire-fighting measures from entering drains or waterways.  
Do not use compressed air during filling, emptying or handling.

**5.3 Special protective equipment for fire-fighters**  
Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.  
Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## 6.0 Accidental release measures

**6.1 Safety precautions**  
Eliminate any possible source of ignition and ventilate premises. On account of the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the premises.  
Avoid inhaling the fumes.  
Avoid any contact with the skin and eyes.  
Consult the safety measures listed under headings 7 and 8.  
Prevent every risk of ignition of the steams.  
Wearing of gloves, glasses and safety mask.

**6.2 Environmental safety precautions**  
Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatom earth in drums for waste disposal.  
Prevent any material from entering drains or waterways.  
Use drums to dispose of waste rfdfdffcovered in accordance with applicable regulations (see heading 13).  
If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

**6.3 Methods for cleaning**  
Clean preferably with a detergent, do not use solvents.  
Use some absorbent.  
The elimination must be carried out by a registered salvage professional.

## 7.0 Handling and storage

The regulatoins relating to storage premises apply to workshops where the product is handled.

**7.1 Advice on safe handling**  
Handle in well ventilated areas.  
The fumes are denser than air. They can spread along the ground and form explosive mixtures with air.  
Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits.  
Do not spray on a naked flame or any incandescent material.  
Prevent accumulation of electrostatic charges.  
Do not smoke.  
Prevent contact with the skin and the eyes.  
Do not inhale steams.

**7.2 Advice on prevention against fire**  
Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment.  
Keep packages tightly closed and away from sources of heat, sparks and naked flames.  
Do not use tools which may produce sparks. Do not smoke.  
Prevent access by unauthorised personnel.  
The steams can be toxic in case of combustion.  
Prevent every contact with hot surfaces or every other ignition point.  
Do not use near electric appliances.

**7.3 Recommended equipment and procedures**  
For personal safety see point 8.  
Observe precautions stated on label and also industrial safety regulations. Packages which have been opened must be reclosed carefully and stored in an upright position.  
Avoid inhaling fumes.  
Avoid contact of product with the skin and eyes.  
Do not smoke.  
Keep the original packing. Do not pierce or burn even after use.

Rules of storage and manipulation applicable to the gas under pressure. Use only in well ventilated premises.

**7.4 Prohibited equipment and procedures**  
Smoking, eating and drinking are prohibited in premises where the preparation is used.  
Never open the packages under pressure.  
Do not pierce or burn, even after use.

**7.5 Storage**  
Keep the container tightly closed in a dry, well ventilated place. Keep away from all sources of ignition. DO NOT smoke.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.  
Keep out of reach of children.  
The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

## 8.0 Exposure controls / personal protection

**8.1 Technical measures**  
Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction. If this ventilation is insufficient to maintain the concentration of solvent fumes below the exposure limits, wear breathing apparatus.

### 8.2 Exposure limits per INRS ND 2098-174-99 and ND 2114-176-99

France	VME ppm	VME mg/m <sup>3</sup>	VLE ppm	VLE mg/m <sup>3</sup>	Notes	TMP No.
74-98-6	-	-	-	-	-	-
106-97-8	800	1900	-	-	-	-
67-63-0	-	-	400	980	-	84
67-64-1	750	1800	-	-	-	84

Germany	Class	MAK ppm	MAK mg/m <sup>3</sup>	Notes
74-98-6	IV	1000	1800	-
106-97-8	IV	1000	2400	-
67-63-0	II, 1	200	500	C
67-64-1	I	500	1200	-

ACGIH (TLV)	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	Notes	Notes
74-98-6	2500	4509	-	-	-	-
106-97-8	800	1900	-	-	-	-
67-63-0	(400)	(983)	(500)	(1230)	-	S
67-64-1	500	1190	750	1780	A4	S

### 8.3 Exposure limits per 2000/39/EC and 98/24/EC

	VME ppm	VME mg/m <sup>3</sup>	VLE ppm	VLE mg/m <sup>3</sup>	Notes
67-64-1	500	1210	-	-	-

**8.4 Safety breathing apparatus**  
Where workers encounter concentrations higher than the exposure limits, they must wear suitable, approved masks.  
Prevent any inhalation from the fog.

**8.5 Hand protection**  
Protective creams may be used for exposed skin, but they should be applied after contact with the product.  
Due to the solvents present, it is recommended that neoprene rubber or nitrile rubber gloves be worn.

**8.6 Eye and face protection**  
Avoid contact with eyes.  
Wear safety goggles.  
Provide eye washes in workshops where the product is constantly handled. It is better to wear glasses in case of possible projections.

**8.7 Skin protection**  
For further information see point 11 - Toxicological information.

## 9.0 Physical and chemical properties

Density	< 1
Acid/base character of preparation	Not relevant
Solubility of preparation in water	Insoluble
Vapour tension at 50°C of volatile constituents	Below 110 kPa (1.10 bar)

Physical state	Fluid liquid
Flash point interval	Flash point < 0°C and distillation temp ≤ 35°C
The pH is impossible to measure or its value is not relevant	
Self-ignition temperature	250°C
Decomposition temperature	250°C
Melting temperature interval	Not relevant
Average distillation temp of solvents contained	56°C

## 10.0 Stability and reactivity

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide.

**10.1 Conditions to avoid**  
Avoid the accumulation of electrostatic charges.  
Keep away from any source of heat or ignition.

**10.2 Materials to avoid**  
STRONG OXYDISING AGENTS.  
Strong acids.

**10.3 Hazardous decomposition products**  
Toxic products by example, carbon oxides.

## 11.0 Toxicological information

No data is available regarding the preparation itself.

Exposure to fumes from solvents contained in the preparation beyond the exposure limits stated may produce effects harmful to health, such as irritation of mucous membrane and respiratory system, kidneys, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and in extreme cases, loss of consciousness.

Prolonged or repeated contact with the preparation may strip the skin of its natural oil and thus cause non-allergic dermatitis on contact and absorption through the epidermis.

Splashes in the eyes may cause irritation and reversible damage.

It is generally agreed that substances contained are likely to cause the appearance of major lesions which persist for at least 24 hours after application to the eye of an animal, and are likely to cause significant irritation which lasts for at least 24 hours after application to the healthy, unbroken skin of an animal for a period of up to 4 hours.

**11.1 In the event of exposure by inhalation**  
A big inhalation can be the cause of waves of nausea and of irritation of the respiratory mucous membranes.

**11.2 In the event of swallowing**  
Accidental absorption can be followed by respiratory accident.  
Accidental ingestion cause burn of the throat, which can be accompanied by gastric pain.

**11.3 In the event of splashes or contact with skin**  
Dry out action on the skin with irritant effect.

**11.4 Other data**  
Isopropyllic alcohol DL50/ctaneous/rabbit: 13g/kg - INRS66  
Aceton DL50/oral/rat: 5000mg/kg  
Heptan DL50 sharp by ingestion or cutaneous higher than 2000mg/kg

## 12.0 Ecological information

No ecological data on the product itself is available.  
The product must not be allowed to run into drains or waterways.

**12.1 Aquatic toxicity**  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**12.2 Other data**  
Do not throw out product in the nature, in residual waters or superficial ones.

## 13.0 Disposal considerations

Do not pour into drains or waterways.  
Aerosol do not pierce or burn after use.  
DISPOSE AS HAZARDOUS WASTE EW CODE 16 05 04

## 14.0 Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport UN1950 = Aerosols

ADR/RID	Class	Code	Pack gr.	Label	Identif	LQ	Provis
	2	5F	-	2.1		LQ2	190-625
IMDG	Class	2° Label	Pack gr.	LQ	Identif	Provis	
	2	2.1	-	-	2-13	6 190 277 913	
IATA	Class	2° Label	Pack gr.	Passager	Passager	Cargo	
	2	2.1	-	203	75kg	203	
	2	2.1	-	Y203	30kg G	-	

## 15.0 Regulatory information

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations.  
In addition directive 2001/59/EC with the 28° adaptation of directive 67/548/EC (Hazardous substances) have been taken into account.

### 15.1 Preparation classification

Irritant. Extremely flammable.

### 15.2 Contains

603-117-00-0 PROPAN-2-OL

### 15.3 Symbol(s)

#### R - phrase(s)

R17 May cause fire  
R43 May cause sensitisation by skin contact  
R36/37/38 Irritating to eyes, respiratory system and skin



#### S - phrase(s)

S2 Keep out of reach of children  
S28 After contact with skin, wash immediately with plenty of water  
S34 Avoid shock and friction



## 16.0 Other information

The attention of users is drawn to the risks of using this product for any other purpose than those intended by the manufacturer.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief, at the date of its publication. However, it does not exempt users from referring to official texts to fully understand their obligations.

**This safety data sheet has been produced according to EEC Regulations 91/155/EEC**

**Further advice and assistance can be obtained from the ITW Construction Products Technical Helpline:**

**UK Freephone: 0800 731 4924**  
**ROI Freephone: 1 800 882 388**

