



**Technical Data
Sheet For:**

**INTACHEM™
T-F-R**

Description:
Vehicle, paint and
tile cleaner

Coverage:
1 litre = 5 sq. m of
surface

INTACHEM IS THE TRADE
MARK OF F&D BULK
SERVICES LTD

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T-F-R is an industrial strength cleaning product which is usually used when diluted many times. The stronger mixtures are only necessary when tackling greasy/oily surfaces. At full strength it classifies as an irritant mixture, but after dilution, whilst eye and skin protection are recommended, this is an extra safety precaution.

Used effectively to clean vehicle soiling, to clean glass, tiles, paintwork and floor tiles.

Product Description:

T-F-R aqueous formulation of surface active agents, sequesterants, dirt suspending chemicals. Also contains a small amount of sodium hydroxide.

How to use the product:

FOR VEHICLE CLEANING: High pressure water jetting can be used to remove heavy deposits of mud, enabling weaker dilutions of T-F-R to be then used. Whilst the product is suitable for use by applications through bleaching pumps, the use of a brush, sponge or some soft surface (agitation) greatly improves the final result. If the product is to be used at full strength (or stronger than 1 part T-F-R:4 part water) a check test, on a small area of the surface involved, should be carried out before extensive use of the product. **IMPORTANT:** Aluminium surfaces may be corroded by strong concentrations of T-F-R and thorough washing off is necessary.

FOR CLEANING ON TILES/PAINTWORK: a test trial will determine the dilution adequate for the work required.

1. When using water jetting/blending pump unit, normal dilution rates of 1 part:20 parts water is used for the start with a pump pressure of about 1,000psi. Operatives should wear suitable face, skin and clothing protection (including footwear). The blend is directed onto the vehicle body, slowly working from the top to lower areas with the mixture. Having applied the blend all over the surface, the operative can then wash off with clean water taking no longer than 30 minutes. Prolonged contact time with the strong bends within T-F-R are not advisable. Warm water may be used if available.
2. For ceramic or vinyl tiles, floor, glass and paint surface cleaning: The product can be applied (usually at a diluted ration of 1 part T-F-R to 10 parts water for test patch trial), using a brush sponge or mop to ease the liquor over the surface involved. After a contact time of up to 10 minutes, or immediately if desired, the surface should then be washed down thoroughly, with clean water to remove the surface dirt and debris. Water jetting is preferable. But not essential.
3. Regular, frequent changes of water should be made if washing down from buckets, in order to remove as much dirt as possible.
4. T-F-R is often used for interior masonry cleaning.

General Safety Precautions:

Containers must be stored in a safe place with the caps secured. A trained responsible person(s) should be appointed to ensure security in depots, in transit and on site. Only competent persons should handle this product. Spillages should be dealt with immediately.

Materials to be avoided:

At full strength or if left for long periods on aluminium, this product can cause corrosion.

Protection of Operative:

Although the product contains only a small amount of sodium hydroxide, which only classifies as irritant, even with dilutions of the product, we advise the use of protective equipment for the face, hands, clothes and feet.

A bucket of clean water for emergency use should be at hand and if working off scaffolding nobody should be allowed to pass or work underneath. Work areas and materials used should all be washed down immediately following splashes and at the end of every work period. All personnel handling and using this product should be familiar with the with the correct and recommended methods of handling and use and of all safety requirements affecting their work.

First Aid Advice:

Accidental splashes on the skin or clothing must be washed off immediately with fresh clean water. Contaminated clothing should be removed.

SPLASHES ON THE SKIN: Wash immediately with plenty of water. Solution of 1 part vinegar to 3 parts clean water can be found beneficial to neutralise the alkalinity of the skin and after using the mixture the skin should be washed thoroughly. **SPLASHES IN THE EYES:** Must be immediately irrigated with plenty of clean water. An eyewash of dilute basic acid may be used. **IN ALL CASES OF EXTENSIVE BURNS MEDICAL HELP SHOULD BE SOUGHT IMMEDIATELY.**



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Ecology:

When diluted, the organic ingredients present are all bio degradable. Wash any splashes off plants or vegetation immediately or protect them with plastic sheeting. Wash down debris as not considered harmful to fish. Water authorities should be consulted about disposal into drains or water courses.

Safety Notes:

1. Always store containers in secure conditions.
2. Keep containers closed when not in use.
3. COSHH Data: T-F-R
4. Hazardous Ingredients: Contains a small quantity of Sodium Hydroxide (less than 1%)
5. Physical Data: A colourless aqueous fluid
6. Solubility: Totally water soluble
7. S G: 1.040—1.085 circa
8. pH Value: 13
9. Hazard classification: Not classified under CoSHH as hazardous, but for extra safety we classify as DANGEROUS SUBSTANCE and IRRITANT
10. Flammability: Non-flammable
11. Fume Hazards: None
12. Other dangers: Protect breathing, skin and eyes from splashes, particularly if using spray application. It could cause skin irritation and would be harmful if swallowed.
13. Handling precautions: Only experienced trained persons should use this product. Wear full hand, face, foot and body protection. Have clean water to hand for emergencies. Store containers in a safe place and ensure caps are closed. Take additional care if using a spray applicator with this product..
14. First Aid—Skin: Wash with plenty of water and seek medical help.
15. First Aid—Eyes: Irrigate with plenty of water and seek medical help.
16. Spillages: Either dilute adequately or absorb into soil and dispose of the debris in the approved manner.
17. Disposal: Ensure adequate dilution before discharge into drains.
18. NEVER leave container full or empty where the public may come into contact with them.
19. ALWAYS fill containers with water before disposing of them.

Spillages:

Either dilute adequately or absorb into soil and dispose of the debris in an approved manner.

Disposal:

Ensure adequate dilution before discharge into the drains.

Important Notice:

The statements above are compiled from our field of production and according to the latest technological developments and application techniques received by us. Since application and working are beyond our control, no liability of the producer (or its agents) can be derived from contents of the information sheet or additional correspondence. All statements made in addition to this sheet must be confirmed in writing by the producer (or its agents). In all cases our general conditions of sale are valid. This data sheet was published 10/10/2005 and supersedes any previous edition.



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1. IDENTIFICATION OF SUBSTANCES, PREPARATIONS AND COMPANY:

Name of Preparation: T-F-R
Supplier: IntaChem, 1 Irwin Drive, Nottingham NG6 7BJ

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Composition: T-F-R is hazardous—IRRITANT for supply under
CHIP regulations. Not hazardous for conveyance.
Contains: (1) 5-10% Nitrilo triacetic acid trisodium salt
IRRITANT
(2) 1-5% Sodium metasilicate
IRRITANT
(3) 5-10% Non ionic and Amphoteric surfactants
IRRITANT

3. HAZARDS IDENTIFICATION:

T-F-R is irritant to the skin and eyes and should be used with care by trained operators especially as the product is intended to be sprayed.

4. FIRST AID MEASURES:

EYES: Irrigate with water for 15 minutes ensuring water bathes the eyeball. Seek medical attention immediately. INGESTION: Remove patient to fresh air. Wash out mouth and throat frequently with water. Do not give emetics. Seek medical advice. SKIN: Wash off with copious water. Remove contaminated clothing. Seek medical advice. INHALATION: Product is not volatile. Treat as for ingestion. SKIN: Wash off with copious amounts of water. Remove contaminated clothing. Seek medical attention.

5. FIRE FIGHTING PROCEDURES:

T-F-R is not flammable.

6. ACCIDENTAL RELEASE MEASURES:

Always prevent skin and eye contact. Smaller quantities can be diluted and hosed away into foul sewer. For larger spillages or if water is not available, slowly cover with soil or sand. Dispose of separately via authorised waste contractor.

7. HANDLING & STORAGE:

Ensure all information in this data sheet is read and understood before using this product. Store upright in own labelled container between 0 and 40 degrees Celsius. Do not store near oxidising agents e.g. bleach. Avoid ingestion and contact with neat or diluted product on skin or eyes. Wear goggles, gloves and protective clothing and shoes—especially when spraying.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Ensure operators carrying out cleaning via pressure washes using T-F-R avoid contact with high pressure sprays. As T-F-R is irritant to eyes and skin a formal CoSHH assessment by employers concerning the risks involved should be made.

The assessment will involve employee awareness of the caustic nature of the product and that the correct handling procedures are in force. Operators should ensure they always wear suitable protective clothing and that the splashes do not damage other equipment.

T-F-R is not intended for use via high pressure washes and employers should ensure that handling precautions associated with these machines are followed. Ensure adequate ventilation and that high pressure spray, even when used diluted does not cause discomfort or injury to their employees. Do not breathe spray mist.

Recommended personal protection is PVC gloves, eye/face protection, suitable protective overalls and footwear.

9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Colourless fluid
pH:	13
Boiling Point:	100 degrees Celsius
Freezing Point:	0 degrees Celsius
Specific Gravity:	1.06
Solubility in H2O:	Soluble in water at all proportions



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10. STABILITY & REACTIVITY:

Product is stable at normal ambient temperatures. Avoid contact on the following: strong oxidising agents and bleach. Avoid contact with Aluminium, Zinc and other alkali sensitive metals. Test small areas at operational dilution before use.

If the product is accidentally heated to decomposition fumes of sodium hydroxide are emitted. Short term exposure limit 10 minutes ref period—2 mg/m³.

11. TOXICOLOGICAL INFORMATION:

T-F-R is corrosive to skin and eyes or if swallowed due to its content of sodium hydroxide, the corrosivity of which overrides all other ingredients in the formulation. The preparation also contains minor levels of surface active detergents necessary for complete rinse off.

12. ECOLOGICAL INFORMATION:

All organic detergents within T-F-R are fully biodegradable.

13. DISPOSAL CONSIDERATIONS:

Small quantities should be hosed away with copious amounts of water to foul sewer. Larger quantities should be absorbed with sand, granules or soil and this solid residue disposed in an approved manner. When empty containers should be filled with water, rinsed clean and emptied to foul sewer. Containers may then be disposed via solid waste.

14. TRANSPORT INFORMATION:

T-F-R is not classified as hazardous for conveyance.

15. REGULATORY INFORMATION:

R&S Phrases

R36/38:

Irritating to eyes and skin

S24/25:

Avoid contact with skin and eyes

S26:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

All relevant procedures under Health & Safety at Work Act and the Control of Substances Hazardous to Health (CoSHH) regulations must be observed. Prior to work a complete written CoSHH assessment must be carried out so that all personnel are aware of the handling precautions and operations necessary with this preparation. Possession of this data sheet does not constitute users own assessment of workplace risk as required by CoSHH but will form the basis of such assessment.

16. OTHER INFORMATION:

Training Advice:

T-F-R contains an irritant ingredient, full training is therefore needed in connection with the use of this product. They must be made aware of both the operational and health and safety procedures.

Detailed advice on building cleaning methods is provided in the IntaChem Product Data Sheet for this product. This bulletins must be read in conjunction with this safety sheet before operations start.

Use diluted for cleaning vehicles, paintwork and tiles.

T-F-R is often used for interior masonry cleaning where AKWA SOLVE does not give the required effects.

T-F-R can be used as a cleaner and degreaser for all kinds of masonry including brick, limestone, sandstone, terracotta etc.

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