

Common Name: TOUGH GUY PHOSPHATE FREE AUTOMATIC DISHWASHER DETERGENT 91390  
Manufacturer: EUROTAB OPERATIONS FRANCE

MSDS Revision Date: 4/18/2012

MSDS Format: No Format Specified

Grainier Item Number(s): 30634

Manufacturer Model Number(s):

## MSDS Table of Contents

Click the desired link to go directly to that section in the MSDS.

[1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE HAZARDS IDENTIFICATION](#)  
[2 HAZARDS IDENTIFICATION](#)  
[3 COMPOSITION/INFORMATION ON INGREDIENTS](#)  
[4 FIRST AID MEASURES](#)  
[5 FIREFIGHTING MEASURES](#)  
[6 ACCIDENTAL RELEASE MEASURES](#)  
[7 HANDLING AND STORAGE](#)  
[8 EXPOSURE CONTROLS/PERSONAL PROTECTION](#)  
[9 PHYSICAL AND CHEMICAL PROPERTIES](#)  
[10 STABILITY AND REACTIVITY](#)  
[11 TOXICOLOGICAL INFORMATION](#)  
[12 ECOLOGICAL INFORMATION](#)  
[13 DISPOSAL INFORMATION](#)  
[14 TRANSPORT INFORMATION](#)  
[15 REGULATORY INFORMATION](#)  
[16 OTHER INFORMATION](#)

EUROTAB (R\*)

OPERATIONS

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) NO 1907/2006

PRINTING DATE: 18.04.2012

VERSION NUMBER: 2

REVISION: 18.04.2012

## 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE HAZARDS IDENTIFICATION

COMPANY/UNDERTAKING

PRODUCT IDENTIFIER:

TRADE NAME: TOUGH GUY PHOSPHATE FREE AUTOMATIC DISHWASHER DETERGENT 91390

ARTICLE NUMBER: 60644

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

APPLICATION OF THE SUBSTANCE / THE PREPARATION: AUTOMATIC DISHWASHING TABS

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

MANUFACTURER/SUPPLIER:

EUROTAB OPERATIONS

SAC DES PEYRARDIS

BP 42173 SAINT JUST-SAINT RAMBERT

+ 33 (0)4 77 02 12 12

CONTACT@EUROTAB.EU

FURTHER INFORMATION OBTAINABLE FROM: EUROTAB INNOVATION

EMERGENCY TELEPHONE NUMBER: 0845 4647 (WWW.NHSDIRECT.NHS.UK)

FRANCE NUMERO ORFILA (INRS): +33 (0)1-45-42-59-59

THE UK NATIONAL POISONS EMERGENCY NUMBER IS 0870 600 6266 (OUTSIDE THE UK: +44 870 600 6266)

## 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC OR DIRECTIVE 1999/45/EC: XI: IRRITANT

R41: RISK OF SERIOUS DAMAGE TO EYES.

INFORMATION CONCERNING PARTICULAR HAZARDS FOR HUMAN AND ENVIRONMENT: THE PRODUCT HAS TO BE LABELLED IN ACCORDANCE WITH DIRECTIVE 1999/45/EC RELATIVE TO DANGEROUS PREPARATIONS, IN THE LATEST VALID VERSION.

CLASSIFICATION SYSTEM:

THE CLASSIFICATION IS ACCORDING TO THE LATEST EDITIONS OF THE EU-LISTS, AND EXTENDED BY COMPANY AND LITERATURE DATA.

LABEL ELEMENTS:

LABELLING ACCORDING TO EU GUIDELINES:

THE PRODUCT HAS BEEN CLASSIFIED AND MARKED IN ACCORDANCE WITH EU DIRECTIVES / ORDINANCE ON DANGEROUS MATERIALS

CODE LETTER AND HAZARD DESIGNATION OF PRODUCT:

XI: IRRITANT

RISK PHRASES:

41: RISK OF SERIOUS DAMAGE TO EYES.

SAFETY PHRASES:

2: KEEP OUT OF THE REACH OF CHILDREN.

Y8: KEEP CONTAINER TIGHTLY CLOSED AND DRY.

25: AVOID CONTACT WITH EYES.

26:

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

39: WEAR EYE/FACE PROTECTION.

46:

IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

47: KEEP AT TEMPERATURE NOT EXCEEDING 40 DEG. C.

SPECIAL LABELLING OF CERTAIN PREPARATIONS:

CONTAINS: SUBSTITISIN. MAY PRODUCE AN ALLERGIC REACTION.

OTHER HAZARDS:

RESULTS OF PBT AND VFBV ASSESSMENT:

PBT: NOT APPLICABLE.

VFBV: NOT APPLICABLE.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: MIXTURES

DESCRIPTION: CLEANING AGENT

DANGEROUS COMPONENTS:

CAS: 497-19-8 SODIUM CARBONATE 10-25%  
EINECS: 207-838-8 XI R36  
REG.NR.: 01-2119485498-19-0017 EYE IRRIT. 2, H319

CAS: 15630-89-4 DISODIUM CARBONATE, 10-25%  
EINECS: 237-707-4 COMPOUND WITH  
REG.NR.: 01-2119457268-30 HYDROGENPEROXIDE (2:3)  
OX. SOL. 2, H272; EYE DAM. 1, H318;  
ACUTE TOX. 4, H302

CAS: 144-55-8 SODIUM HYDROGENCARBONATE 10-25%  
EINECS: 205-633-8 ACUTE TOX. 4, H332  
REG.NR.: 01-2119457606-32

CAS: 13870-28-5 DISODIUM DISILICATE 2,5-10%  
EINECS: 237-623-4 XI R41  
REG.NR.: 01-2119485031-47-0000 EYE DAM. 1, H318

CAS: 3794-93-0 TETRASODIUM (1-HYDROXY- </~2.5%  
EINECS: 221-267-7 ETHYLENEDI-BISPHOSPHONATE  
REG.NR.: 01-2119510382-52-0001 XN R22; XI R36  
ACUTE TOX. 4, H302; EYE IRRIT. 2, H319

CAS: 9014-01-4 SUBSTITISIN </~2.5%  
EINECS: 232-752-2 XN R22; XI R37/38-41;  
REG.NR.: 01-2119480434-38 XN R42; N R50  
RESP. SENS. 1, H334; EYE DAM. 1, H318;  
SKIN IRRIT. 2, H315; STOT SE 3, H315

REGULATION (EC) NO 648/2004 ON DETERGENTS / LABELLING FOR CONTENTS:  
OXYGEN-BASED BLEACHING AGENTS 15 - 30%

PHOSPHONATES, POLYCARBOXYLATES, NON-IONIC SURFACTANTS < 5%

ENZYMES, PERFUMES

ADDITIONAL INFORMATION:

FOR THE WORDING OF THE LISTED RISK PHRASES REFER TO SECTION 16.

## 4 FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

AFTER INHALATION: SUPPLY FRESH AIR; CONSULT DOCTOR IN CASE OF COMPLAINTS.

AFTER SKIN CONTACT: GENERALLY THE PRODUCT DOES NOT IRRITATE THE SKIN.

AFTER EYE CONTACT:  
RINSE OPENED EYE FOR SEVERAL MINUTES UNDER RUNNING WATER. THEN CONSULT A DOCTOR.

AFTER SWALLOWING: IF SYMPTOMS PERSIST CONSULT DOCTOR.

INFORMATION FOR DOCTOR:

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:  
NO FURTHER RELEVANT INFORMATION AVAILABLE.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: NO FURTHER RELEVANT INFORMATION AVAILABLE.

## 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING AGENTS:

USE FIRE EXTINGUISHING METHODS SUITABLE TO SURROUNDING CONDITIONS.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:  
NO FURTHER RELEVANT INFORMATION AVAILABLE.

ADVICE FOR FIREFIGHTERS:

PROTECTIVE EQUIPMENT: NO SPECIAL MEASURES REQUIRED.

## 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:  
NOT REQUIRED.

ENVIRONMENTAL PRECAUTIONS:

DO NOT ALLOW TO ENTER SEWERS/SURFACE OR GROUND WATER.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:  
PICK UP MECHANICALLY.

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.

## 7 HANDLING AND STORAGE

HANDLING:

PRECAUTIONS FOR SAFE HANDLING: NO SPECIAL MEASURES REQUIRED.

INFORMATION ABOUT FIRE - AND EXPLOSION PROTECTION:  
NO SPECIAL MEASURES REQUIRED.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:  
STORAGE:

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEIPTABLES:  
NO SPECIAL REQUIREMENTS.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY: NOT REQUIRED.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:  
KEEP CONTAINER TIGHTLY SEALED.

STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEIPTABLES.

SPECIFIC END USE(S): NO FURTHER RELEVANT INFORMATION AVAILABLE.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL FACILITIES:  
NO FURTHER DATA; SEE ITEM 7.

CONTROL PARAMETERS:

INGREDIENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:  
THE PRODUCT DOES NOT CONTAIN ANY RELEVANT QUANTITIES OF MATERIALS WITH CRITICAL VALUES THAT HAVE TO BE MONITORED AT THE WORKPLACE.

ADDITIONAL INFORMATION:

THE LISTS VALID DURING THE MAKING WERE USED AS BASIS.

EXPOSURE CONTROLS:

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC MEASURES:  
IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING  
WHEN HANDS BEFORE EYES AND AT THE END OF WORK.

AVOID CONTACT WITH THE EYES.

RESPIRATORY PROTECTION: NOT REQUIRED.

PROTECTION OF HANDS:  
PROTECTIVE GLOVES

VALID IN CASE OF PROLONGED CONTACTS LIKE DURING PRODUCTION  
NOT REQUIRED IN NORMAL USE

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 DEGRADATION AND THE DEGRADATION

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 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.

NITRIL RUBBER, NBR

NATURAL RUBBER, NR

PVC GLOVES

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:

SAFETY GLASSES

VALID IN CASE OF PROLONGED CONTACTS LIKE DURING PRODUCTION  
NOT REQUIRED IN NORMAL USE

## 9 PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

GENERAL INFORMATION:

APPEARANCE:

FORM: SOLID

COLOUR: ACCORDING TO PRODUCT SPECIFICATION

ODOUR: CHARACTERISTIC

ODOUR THRESHOLD: NOT DETERMINED.

PH-VALUE: ALKALINE

CHANGE IN CONDITION:

MELTING POINT/MELTING RANGE: UNDETERMINED.

BOILING POINT/BOILING RANGE: 999 DEG. C

FLASH POINT: 260 DEG. C

FLAMMABILITY (SOLID, GASEOUS): NOT DETERMINED.

IGNITION TEMPERATURE:

DECOMPOSITION TEMPERATURE: NOT DETERMINED.

SELF-IGNITING: PRODUCT IS NOT SELF-IGNITING.

DANGER OF EXPLOSION: PRODUCT DOES NOT PRESENT AN EXPLOSION HAZARD.

EXPLOSION LIMITS:

LOWER: NOT DETERMINED.

UPPER: NOT DETERMINED.

VAPOUR PRESSURE: NOT APPLICABLE.

DENSITY: NOT DETERMINED.

RELATIVE DENSITY: NOT DETERMINED.

VAPOUR DENSITY: NOT APPLICABLE.

EVAPORATION RATE: NOT APPLICABLE.

SOLUBILITY IN / MISCIBILITY WITH WATER: SOLUBLE.

SEGREGATION COEFFICIENT (N-OCTANOL/WATER): NOT DETERMINED.

VISCOSITY:

DYNAMIC: NOT APPLICABLE.

KINEMATIC: NOT APPLICABLE.

SOLVENT CONTENT:

ORGANIC SOLVENTS: 0.3%

WATER: 0.2%

SOLIDS CONTENT: 99.5%

OTHER INFORMATION: NO FURTHER RELEVANT INFORMATION AVAILABLE.

## 10 STABILITY AND REACTIVITY

REACTIVITY:

CHEMICAL STABILITY:

THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED:  
NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS.

POSSIBILITY OF HAZARDOUS REACTIONS: NO DANGEROUS REACTIONS KNOWN.

CONDITIONS TO AVOID: NO FURTHER RELEVANT INFORMATION AVAILABLE.

INCOMPATIBLE MATERIALS: NO FURTHER RELEVANT INFORMATION AVAILABLE.

HAZARDOUS DECOMPOSITION PRODUCTS:  
NO DANGEROUS DECOMPOSITION PRODUCTS KNOWN.

## 11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

LD<sub>50</sub>/LC<sub>50</sub> VALUES RELEVANT FOR CLASSIFICATION:

15630-89-4 DISODIUM CARBONATE, COMPOUND WITH HYDROGENPEROXIDE (2:3):  
ORAL LD<sub>50</sub>: 1034 MG/KG (RAT)

DERMAL LD<sub>50</sub>: >2000 MG/KG (RABBIT)

PRIMARIL IRRITANT EFFECT:

ON THE SKIN: NO IRRITANT EFFECT.

ON THE EYE: STRONG IRRITANT WITH THE DANGER OF SEVERE EYE INJURY.

SENSITIZATION: NO SENSITIZING EFFECTS KNOWN.

## 12 ECOLOGICAL INFORMATION

TOXICITY:

AQUATIC TOXICITY: NO FURTHER RELEVANT INFORMATION AVAILABLE.

PERSISTENCE AND DEGRADABILITY:  
THE SURFACTANT(S) CONTAINED IN THIS PREPARATION COMPLIES(COMPLY) WITH THE BIODEGRADABILITY CRITERIA AS LAID DOWN IN REGULATION (EC) NO.648/2004 ON DETERGENTS. DATA TO SUPPORT THIS ASSERTION ARE HELD AT THE DISPOSAL OF THE COMPETENT AUTHORITIES OF THE MEMBER STATES AND WILL BE MADE AVAILABLE TO THEM AT THEIR DIRECT REQUEST OR AT THE REQUEST OF A DETERGENT MANUFACTURER.

BEHAVIOUR IN ENVIRONMENTAL SYSTEMS:

BIOACCUMULATIVE POTENTIAL: NO FURTHER RELEVANT INFORMATION AVAILABLE.

MOBILITY IN SOIL: NO FURTHER RELEVANT INFORMATION AVAILABLE.

ADDITIONAL ECOLOGICAL INFORMATION:

GENERAL NOTES:

WATER HAZARD CLASS 1 (GERMAN REGULATION) (SELF-ASSESSMENT):  
SLIGHTLY HAZARDOUS FOR WATER

DO NOT ALLOW UNDIUTED PRODUCT OR LARGE QUANTITIES OF IT TO REACH GROUND WATER, WATER COURSE OR SEWAGE SYSTEM.

RESULTS OF PBT AND VFBV ASSESSMENT:

PBT: NOT APPLICABLE.

VFBV: NOT APPLICABLE.

OTHER ADVERSE EFFECTS: NO FURTHER RELEVANT INFORMATION AVAILABLE.

## 13 DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:

RECOMMENDATION:  
MUST NOT BE MIXED TOGETHER WITH HOUSEHOLD GARBAGE. DO NOT ALLOW PRODUCT TO REACH SEWAGE SYSTEM.

UNCLEANED PACKAGING:

RECOMMENDATION: DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS.

RECOMMENDED CLEANSING AGENTS:

WATER, IF NECESSARY TOGETHER WITH CLEANSING AGENTS.

## 14 TRANSPORT INFORMATION

UN-NUMBER:

ADR, ADM, IATA: VOID

UN PROPER SHIPPING NAME:

ADR, ADM, IMDG, IATA: VOID

TRANSPORT HAZARD CLASS(ES):

ADR, ADM, IMDG, IATA CLASS: VOID

PACKING GROUP:

ADR, IMDG, IATA: VOID

ENVIRONMENTAL HAZARDS:

HAZARDOUS POLLUTANT: NO

SPECIAL PRECAUTIONS FOR USER: NOT APPLICABLE.

TRANSPORT IN BULK CONTAINERS TO ANNEX II OF MARPOL/37/78 AND THE IBC CODE:  
NOT APPLICABLE.

## 15 REGULATORY INFORMATION

CHEMICAL SAFETY ASSESSMENT:

A CHEMICAL SAFETY ASSESSMENT HAS NOT BEEN CARRIED OUT.

## 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 BE USED TO SUPPORT THIS ASSERTION ARE HELD AT THE DISPOSAL OF THE COMPETENT AUTHORITIES OF THE MEMBER STATES AND WILL BE MADE AVAILABLE TO THEM AT THEIR DIRECT REQUEST OR AT THE REQUEST OF A DETERGENT MANUFACTURER.

FOR SUBSTANCES WITH HEALTH REGISTRATION NUMBER, INFORMATION ON THE CLASSIFICATION BY REGULATION (EC) NO 1272/2008 ARE PROVIDED BY THE SUPPLIER OF THE SUBSTANCE.

FOR ALL OTHER SUBSTANCES, INFORMATION ON THE CLASSIFICATION BY REGULATION (EC) NO 1272/2008 ARE PURELY ILLUSTRATIVE (AUTOMATIC SOFTWARE), AND MAY BE MODIFIED BASED ON DATA SUPPLIERS.

RELEVANT PHRASES:

H272: MAY INTENSIFY FIRE; OXIDISER.

H302: HARMFUL IF SWALLOWED.

H315: CAUSES SKIN IRRITATION.

H318: CAUSES SERIOUS EYE DAMAGE.

H319: CAUSES SERIOUS EYE IRRITATION.

H332: HARMFUL IF INHALED.

H334:

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.

H335: MAY CAUSE RESPIRATORY IRRITATION.

R22: HARMFUL IF SWALLOWED.

R36: IRRITATING TO EYES.

R37/38: IRRITATING TO RESPIRATORY SYSTEM AND SKIN.

R41: RISK OF SERIOUS DAMAGE TO EYES.

R42: MAY CAUSE SENSITIZATION BY INHALATION.

R50: VERY TOXIC TO AQUATIC ORGANISMS.

R8: CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.

DEPARTMENT ISSUING MSDS: EUROTAB INNOVATION

CONTACT: R&D DEPARTMENT

GB