



## TALBOT CHEMICALS LTD

### Safety Data Sheet Rinse Aid

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

##### Product identifier

|                |           |
|----------------|-----------|
| Product name   | Rinse Aid |
| Product number | 005RA     |
| Brand          | Talbots   |

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

PC35: Washing and cleaning products (including solvent based products).

##### Details of the supplier of the safety data sheet

|           |  |
|-----------|--|
| Name      | Talbot Chemicals Ltd                         |
| Address   | Telford Drive<br>NG24 2DX Newark Notts<br>UK |
| Telephone | 01636611707                                  |
| Fax       | 01636611708                                  |
| email     | talbots.tc@gmail.com                         |

##### Emergency telephone number

01636 611707

#### SECTION 2: Hazards identification

##### General hazard statement

Avoid Contact with clothing, and Don't mix with other chemicals.

##### Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 (CLP)

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This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

### Label elements

#### Labelling according to Regulation (EC) No 1272/2008 [CLP]

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

### Other hazards

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Components

##### 1. Isopropanol

|                    |  |
|--------------------|--|
| Concentration      | 5 - 15 % (volume)                          |
| EC no.             | 414-810-0                                  |
| CAS no.            | 67-63-0                                    |
| Index no.          | 607-403-00-6                               |
| REACH registration | REACH registration number 01-2119457558-25 |

- Flammable liquids, Cat. 2
- Serious eye damage/eye irritation, Cat. 2A
- Specific target organ toxicity following single exposure, Cat. 3

|      |                                   |
|------|-----------------------------------|
| H225 | Highly flammable liquid and vapor |
| H319 | Causes serious eye irritation     |
| H335 | May cause respiratory irritation  |
| H336 | May cause drowsiness or dizziness |

##### 2. Methyl-oxirane polymer with oxirane

|                    |                      |
|--------------------|----------------------|
| Concentration      | 0.5 - 1.5 % (weight) |
| CAS no.            | 9003-11-6            |
| REACH registration | Mixture              |

##### 3. Phosphoric acid

|               |                      |
|---------------|----------------------|
| Concentration | 0.5 - 1.5 % (weight) |
| EC no.        | 231-633-2            |
| CAS no.       | 7664-38-2            |
| Index no.     | 015-011-00-6         |

- Skin corrosion/irritation, Cat. 1B

|      |   |
|------|---|
| H314 | Causes severe skin burns and eye damage |
|------|---|

## SECTION 4: First aid measures

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### Description of first aid measures

#### General notes

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### Following inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

#### Following skin contact

Take off immediately all contaminated clothing. Wash with plenty of soap and water. Get medical attention if irritation develops or persists.

Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

#### Following eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention

Acute and delayed symptoms and effects: May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Following ingestion

Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

### Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### Further information

Use water spray to cool unopened containers.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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### Environmental precautions

Do not let product enter drains.

### Methods and material for containment and cleaning up

Eliminate all sources of ignition. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash hands with soap and water after handling. Container explosion may occur under fire conditions. Use explosion-proof equipment. Keep away from sources of ignition. No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### Control parameters

#### 1. Isopropanol (CAS: 67-63-0)

|                            |  |
|----------------------------|--|
| Parameter                  | PEL  |
| Route of exposure          | Inhalation   |
| Value                      | 400 ppm  |
| Source                     | OSHA   |
| Basis / monitoring / notes | OSHA Annotated Table Z-1, <a href="http://www.osha.gov">www.osha.gov</a> |

|                            |  |
|----------------------------|--|
| Parameter                  | PEL  |
| Route of exposure          | Inhalation   |
| Value                      | 980 mg/m <sup>3</sup>  |
| Source                     | OSHA   |
| Basis / monitoring / notes | OSHA Annotated Table Z-1, <a href="http://www.osha.gov">www.osha.gov</a> |

|                            |  |
|----------------------------|--|
| Parameter                  | PEL  |
| Route of exposure          | Inhalation   |
| Value                      | 400 ppm, (ST) 500 ppm  |
| Source                     | Cal/OSHA   |
| Basis / monitoring / notes | OSHA Annotated Table Z-1, <a href="http://www.osha.gov">www.osha.gov</a> |

|                            |  |
|----------------------------|--|
| Parameter                  | REL  |
| Route of exposure          | Inhalation   |
| Value                      | 400 ppm, (ST) 500 ppm  |
| Source                     | NIOSH  |
| Basis / monitoring / notes | OSHA Annotated Table Z-1, <a href="http://www.osha.gov">www.osha.gov</a> |

|                   |                       |
|-------------------|-----------------------|
| Country           | USA                   |
| Parameter         | TLV®                  |
| Route of exposure | Inhalation            |
| Value             | 200 ppm, (ST) 400 ppm |
| Source            | ACGIH                 |

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Basis / monitoring / notes OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 2. Phosphoric acid (CAS: 7664-38-2 EC: 231-633-2)

Country USA

Parameter PEL

Route of exposure Inhalation

Value 1 mg/m<sup>3</sup>

Source OSHA

Basis / monitoring / notes OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

Country USA

Parameter PEL

Route of exposure Inhalation

Value 1 mg/m<sup>3</sup>, (ST) 3 mg/m<sup>3</sup>

Source Cal/OSHA

Basis / monitoring / notes OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

Country USA

Parameter REL

Route of exposure Inhalation

Value 1 mg/m<sup>3</sup>, (ST) 3 mg/m<sup>3</sup>

Source NIOSH

Basis / monitoring / notes OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

Country USA

Parameter TLV®

Route of exposure Inhalation

Value 1 mg/m<sup>3</sup>, (ST) 3 mg/m<sup>3</sup>

Source ACGIH

Basis / monitoring / notes OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

## Exposure controls

### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

### Personal protection equipment

#### Eye and face protection

Safety glasses are recommended if there is splash hazard.

#### Skin protection

Wear protective gloves, such as nitrile gloves.

#### Body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Not required under normal use conditions. If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator with organic vapor/acid gas cartridge and particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

#### Thermal hazards

No data available.

## Environmental exposure controls

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Do not let product enter drains.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

|   |                    |
|---|--------------------|
| Appearance                              | Blue/Liquid        |
| Odour                                   | Low                |
| Odour threshold                         | N/A                |
| pH                                      | 3                  |
| Melting point / freezing point          | N/A                |
| Initial boiling point and boiling range | N/A                |
| Flash point                             | >80°C              |
| Evaporation rate                        | No data available. |
| Flammability (solid, gas)               | N/A                |
| Upper/lower flammability limits         | N/A                |
| Upper/lower explosive limits            | N/A                |
| Vapour pressure                         | N/A                |
| Vapour density                          | N/A                |
| Relative density                        | 0.995              |
| Solubilit(ies)                          | N/A                |
| Partition coefficient: n-octanol/water  | N/A                |
| Auto-ignition temperature               | N/A                |
| Decomposition temperature               | N/A                |
| Viscosity                               | N/A                |
| Explosive properties                    | N/A                |
| Oxidising properties                    | N/A                |

#### Other information

No data available.

### SECTION 10: Stability and reactivity

#### Reactivity

This material is considered to be non reactive under normal use conditions.

#### Chemical stability

Stable under normal storage conditions.

#### Possibility of hazardous reactions

No data available.

#### Conditions to avoid

Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

#### Incompatible materials

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Isopropanol: Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

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Methyl-oxirane polymer with oxirane: strong bases, strong acids, strong oxidizing agents

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Phosphoric acid : Strong bases, Powdered metals

#### Hazardous decomposition products

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No data available.

-----  
Isopropanol: Hazardous decomposition products formed under fire conditions. - Carbon oxides  
Other decomposition products - No data available  
In the event of fire: see section 5

-----  
Methyl-oxirane polymer with oxirane: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.  
Thermal decomposition:  
No data available.

-----  
Phosphoric acid : Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus  
Other decomposition products - No data available

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Components:

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.  
Acute and delayed symptoms and effects from inhalation, skin and eye contact and ingestion are listed in Section 4.

#### Skin corrosion/irritation

Based on available data, classification data are not met

#### Serious eye damage/irritation

May cause eye irritation.

#### Respiratory or skin sensitization

Based on available data, classification data are not met

#### Germ cell mutagenicity

Based on available data, classification data are not met

#### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

#### Reproductive toxicity

Based on available data, classification data are not met

#### STOT-single exposure

Based on available data, classification data are not met

#### STOT-repeated exposure

Based on available data, classification data are not met

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### Aspiration hazard

Based on available data, classification data are not met

### Additional information

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2,4-DICHLOROPHENOXYACETIC ACID: \*TOXICITY:

typ. dose mode specie amount units other

LDLo orl hmn 80 mg/kg

LDLo orl man 93 mg/kg

LD50 orl rat 370 mg/kg

LD50 skn rat 1500 mg/kg

LDLo ipr rat 666 mg/kg

LD50 orl mus 347 mg/kg

LDLo ipr mus 125 mg/kg

LDLo orl rbt 800 mg/kg

LD50 orl dog 100 mg/kg

LD50 skn rbt 1400 mg/kg

LDLo ipr rbt 400 mg/kg

LDLo ivn rbt 400 mg/kg

LDLo ipr gpg 666 mg/kg

LD50 orl ham 500 mg/kg

LD50 orl ckn 541 mg/kg

LD50 orl mam 375 mg/kg

\*AQTX/TLM96: Not available

\*SAX TOXICITY EVALUATION:

THR: Poison by ingestion, intravenous and intraperitoneal routes. Moderately toxic by skin contact. An experimental carcinogen and teratogen. A suspected human carcinogen. Human systemic effects by ingestion. Human mutation data. A defoliant and herbicide.

\*CARCINOGENICITY:

Review: IARC Cancer Review: Human Limited Evidence

IARC Cancer Review: Animal Inadequate Evidence

IARC possible human carcinogen (Group 2B) [395]

IARC Note: Although IARC has assigned an overall evaluation to chloro-phenoxy herbicides, it has not assigned an overall evaluation to all substances within this group [610].

\*MUTATION DATA:

test lowest dose | test lowest dose

----- | -----

dnr-esc 5 mg/disc | mmo-omi 1 gm/L

dnd-esc 20 umol/L | cyt-rat-ipr 100 ug/kg

dnr-bcs 5 mg/disc | dni-ham:ovr 1 mmol/L

sln-dmg-ork 25 ppm | cyt-ham:ovr 2400 mg/L

sln-dmg-unr 1000 ppm/15D | dnd-sal:spr 1 mmol/L

mmo-smc 150 mg/L | sce-hmn:lym 10 mg/L

mrc-asn 4 umol/L | msc-ham:lng 10 umol/L

mma-sat 250 ug/plate | cyt-ctl:kdy 1 ppm

dns-hmn:fbr 1 umol/L | dnd-mam:lym 1 mmol/L

cyt-hmn:lym 20 ug/L | dni-mus-ork 200 mg/kg

cyt-mus-ork 100 mg/kg | sce-ham:ovr 167 mg/L

\*TERATOGENICITY:

Reproductive Effects Data:



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TDLo: orl-rat 1 gm/kg (6-15D preg)  
TDLo: orl-rat 125 mg/kg (6-15D preg)  
TDLo: orl-rat 500 mg/kg (6-15D preg)  
TDLo: orl-mus 707 mg/kg (11-14D preg)  
TDLo: orl-mus 900 mg/kg (6-14D preg)  
TDLo: scu-mus 882 mg/kg (6-14D preg)  
TDLo: scu-mus 900 mg/kg (6-14D preg)  
TDLo: orl-ham 200 mg/kg (7-11D preg)  
TDLo: orl-rat 220 ug/kg (1-22D preg)  
TDLo: orl-mus 438 mg/kg (8-12D preg)

#### \*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z  
Transitional Limit: PEL-TWA 10 mg/m<sup>3</sup> [015,327,545,610]  
Final Limit: PEL-TWA 10 mg/m<sup>3</sup> [015,545,610]  
ACGIH: TLV-TWA 10 mg/m<sup>3</sup> [015,415,610]  
NIOSH Criteria Document: None  
NFPA Hazard Rating: Health (H): None  
Flammability (F): None  
Reactivity (R): None

#### \*OTHER TOXICITY DATA:

##### Skin and Eye Irritation Data:

skn-rbt 500 mg/24H MLD

eye-rbt 750 ug/24H SEV

Review: Toxicology Review-6

Standards and Regulations: DOT-Hazard: ORM-A; Label: None

Status: EPA Genetox Program 1988, Positive: In vivo cytogenetics-nonhuman bone marrow

EPA Genetox Program 1988, Positive: In vitro cytogenetics-human lymphocyte

EPA Genetox Program 1988, Positive: B subtilis rec assay; E coli polA without S9

EPA Genetox Program 1988, Positive: V79 cell culture-gene mutation

EPA Genetox Program 1988, Positive: S cerevisiae gene conversion

EPA Genetox Program 1988, Negative: D melanogaster-whole sex chrom. loss

EPA Genetox Program 1988, Negative: D melanogaster-nondisjunction

EPA Genetox Program 1988, Negative: Histidine reversion-Ames test

EPA Genetox Program 1988, Negative: D melanogaster Sex-linked lethal

EPA Genetox Program 1988, Negative: In vitro UDS-human fibroblast; TRP reversion

EPA Genetox Program 1988, Negative: S cerevisiae-homozygosis

EPA Genetox Program 1988, Inconclusive: Carcinogenicity-mouse/rat; Mammalian micronucleus

EPA TSCA Chemical Inventory, 1986

EPA TSCA Test Submission (TSCATS) Data Base, January 1989

NIOSH Analytical Methods: see 2,4-D and 2,4,5-T, 5001

Meets criteria for proposed OSHA Medical Records Rule

Lethal dose: 700 mg/kg [051]

Acceptable daily intake for man: 0-0.3 mg/kg [395]

## SECTION 12: Ecological information

### Toxicity

No data available on product

### Persistence and degradability

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No data available on product

### Bioaccumulative potential

No data available on product

### Mobility in soil

No data available on product.

### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### Other adverse effects

No data available on product.

## SECTION 13: Disposal considerations

### Waste treatment methods

#### Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

#### Disposal of contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

|  |      |
|--|------|
| UN Number  | None |
| UN Proper Shipping Name  | None |
| Transport hazard class(es)   | None |
| Packing group  | None |
| Environmental hazards  | None |
| Special precautions for user   | None |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | None |

## SECTION 15: Regulatory information

### Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## SECTION 16: Other information

### Further information/disclaimer

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.