
1. Product and Company Identification

Identity (as used on label & list): **Decon7 Part 1**
Product Description: Water Soluble Surfactants and Water
Intended Use: Disinfectant, Mildewstat, Virucide, only for use when added to Decon7 Part 2

Supplier Details: Decon7 Systems LLC
7575 E Redfield Rd Ste 235
Scottsdale, AZ 85260
480-339-2858

Emergency Telephone
Number (with hours of operation) 1-800-424-9300 (24/7)

2. Hazards Identification

Hazardous Classification:

Pictogram:



Signal word: Danger

Hazard Statement: Causes skin burns, causes eye injury, harmful if swallowed or inhaled

Under conditions of intended use this product is not considered hazardous and does not pose a risk to health.

Overview; Ingredients not listed as a carcinogen by IARC, NTP, or OSHA

DOT Hazard Class: Not Applicable

Threshold Value Limit (TLV): Not Determined

Signs and Symptoms of Exposure:

Eyes Will cause irritation and inflammation characterized by redness, watering, and itching; depending on length of exposure, solution concentration and first aid measures provided.

Skin Causes skin irritation characterized by reddening. Prolonged contact with product may cause discomfort, no adverse effects expected from absorption of material through skin.

Ingestion Not expected to be a primary route of exposure, will produce gastrointestinal discomfort.

Inhalation Not expected to be a primary route of exposure, vapors or mists in unusually high concentration, in poorly ventilated areas may cause irritation of nose and throat characterized by coughing.

3. Composition/ Information on Ingredients

| Component | CAS-No. | %Wt. |
|--|------------|------|
| Alky-Dimethyl-benzylammonium chloride | 68424-85-1 | 3.2 |
| Pentamethyl-N-Alkyl Trimethylene diammonium Chloride | 68607-29-4 | 1.0 |

| | | |
|-----------------------------------|-----------|------|
| Diethylene Glycol Monobutyl Ether | 112-34-8 | 1.6 |
| 1-Dodecanol | 112-53-8 | 0.8 |
| Isobutanol | 78-83-1 | 1.0 |
| | | |
| Propylene Glycol | 57-55-6 | 20.0 |
| Potassium Hydroxide | 1310-58-3 | 3.2 |
| Potassium Bicarbonate | 248-14-6 | 10.0 |
| Water | Balance | |

4. First Aid Measures

- Inhalation:** Remove to fresh air. If irritation persists, seek medical attention. If breathing has stopped, assist ventilation with a mechanical device or use rescue breathing with a pocket mask.
- Skin:** Wash skin with water.
- Eyes:** Flush with water for 15 minutes. If eye irritation persists, seek medical attention.
- Ingestion:** If swallowed, get immediate medical attention or advice. If victim is conscious and able to swallow, give large amounts of water. Do not give anything by mouth to the person who is unconscious or convulsing. Do not induce vomiting unless directed by a physician.

5. Fire Fighting Measures

| | |
|----------------------------|----------------|
| Flash Point | Not Applicable |
| Auto Ignition Temperature: | Not Applicable |
| Flammable Limits | Not Applicable |
| Classification | Not Flammable |
| Extinguishing Media | Not Applicable |

Special Fire Fighting Procedures: NFPA Code: Health 1, Fire 0, Reactivity 0
Use water spray to cool fire-exposed surfaces to prevent over-pressure of containers and to protect personnel. Use air-supplied breathing equipment for enclosed areas.

6. Accidental Release Measures

- Containment Procedures** Stop flow of material if without risk. Dike spill with inert absorbent. Block any potential routes to water systems, sewers, streams, lakes, etc.
- Clean-Up Procedures** Wear appropriate protective equipment and clothing. Absorb with inert absorbent, shovel material into appropriate container for disposal.
- Evacuation Procedures** Keep unnecessary personnel away.

7. Handling and Storage

- Handling Procedures** Avoid contact with skin and eyes. Observe good industrial hygiene practices and wash thoroughly after handling.
- Technical Measures** Work practices should minimize contact.
- Technical Precautions** Local exhaust is normally not required unless the process produces a mist.
- Storage Procedures** Store in tightly closed original container, in well ventilated place, away from strong acids. Prevent from freezing. If frozen, move to warm area.

8. Exposure Controls/ Personal Protection

Ventilation Engineering Controls:

Ventilation should effectively remove and prevent any buildup of any vapor or mist generated from the use of this product

Personal Protection Equipment (PPE)***Respiratory Protection:***

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA rated respiratory protection must be provided.

Skin Protection:

Use Impervious gloves. Use of impervious apron and boots are recommended

Eye/Face Protection:

Wear safety glasses, chemical goggles or a full face shield.

Other Protective Clothing / Equipment:

None.

9. Physical and Chemical Properties

| | |
|--|---|
| Physical State | Liquid |
| Appearance and Color | Light yellow to water white liquid |
| Boiling Point (° F) approximately | 212° F |
| Odor | Ammoniacal |
| Vapor Pressure (mmHg) | equivalent to water |
| Vapor Density (air= 1) less than | equivalent to water |
| Solubility in Water | Complete |
| Specific Gravity (H ₂ O= 1) approximately | 1.09 |
| Burning Properties | Oxides of carbon and nitrogen may be produced after all moisture is boiled off. |
| Flammability | Not Flammable |
| Explosive Properties | Not Explosive |
| Flashpoint | Not applicable |
| Auto-ignition temperature | Not applicable |
| Decomposition temperature | Not applicable |
| pH of Product | 10.7 |
| Evaporation Rate (water= 1) | < 1 |
| Viscosity | ≈ water |

10. Stability and Reactivity

Chemical Stability:

This is a chemically stable material.

Conditions to Avoid:

Heat from fire sufficient to overpressure container.

Materials to Avoid:

Strong acids

Hazardous Decomposition or Byproducts:

Material will not decompose in use or storage. Oxides of carbon, nitrogen may be produced after all moisture is boiled off in a fire.

Hazardous Polymerization

Will not occur.

11. Toxicological Information

| | |
|------|---|
| Eyes | Will cause irritation and conjunctivitis depending on length of exposure, solution concentration and first aid measures provided. |
| Skin | Prolonged contact with product may cause discomfort, no adverse effects expected from absorption of material through skin |

Ingestion Not expected to be a primary route of exposure. Rat oral LD₅₀ (of mixed Part 1@49%, Part 2@49%, Part 3@2%) is greater than 5000milligrams/kilogram of body weight

Inhalation Vapors or mists in unusually high concentration, in poorly ventilated areas may cause irritation of nose and throat.

Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No

12. Ecological Information

The product is not expected to be hazardous to the environment.

Mobility: This product is soluble in water and will spread in water systems

Degradability: The rate of degradation has not been determined. Surfactant components are inherently bio-degradable.

13. Disposal Considerations

Waste Material Disposal of in accordance with Local, State and Provincial Environmental Regulations.

Treat container as residue.

14. Transport Information

Not Regulated

15. Regulatory Information

DOT Hazard Class: Not regulated

EPA Hazardous Substances: None

SARA 311/312 Hazards: Immediate (Acute) Health Hazard

SARA Title III: none

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Governmental Inventory Status: All components comply with TSCA, DSL, AICS, NZIoC, ENCS, KECI, PICCS and IECSC.

16. OTHER INFORMATION

| US NFPA Codes | Health | Fire | Reactivity | | |
|---------------|--------|------|------------|-----------|--|
| | 1 | 0 | 0 | | |
| HMIS Codes | Health | Fire | Reactivity | PPE | |
| | 1 | 0 | 0 | Section 8 | |

The information on this SDS reflects the latest information that we have on hazards, properties, and handling of this product under recommended conditions of use. This company believes this information to be accurate and reliable however, the accuracy and completeness is not guaranteed.

1. Product and Company Identification

Identity (as used on label & list): **Decon7 Part 2**
Product Description: Hydrogen Peroxide and Water
Intended Use: Disinfectant, Mildewstat, Virucide, only for use when added to Decon7 Part 1

Supplier Details: Decon7 Systems LLC
7575 E Redfield Rd Ste 235
Scottsdale, Az 85260
480-339-2858

Emergency Telephone
Number (with hours of operation) 1-800-424-9300 (24/7)

2. Hazards Identification

Hazardous Classification:

Pictogram:



Signal word: Danger

Hazard Statement: Causes skin burns, can cause irreversible eye injury, harmful if swallowed or inhaled

Under conditions of intended use this product is not considered hazardous and does not pose a risk to health.

Overview; Ingredients not listed as a carcinogen by IARC, NTP, or OSHA

DOT Hazard Class: Not Applicable

Threshold Value Limit (TLV): Not Determined

Signs and Symptoms of Exposure:

Eyes Will cause irritation and inflammation characterized by redness, watering, and itching; depending on length of exposure, solution concentration and first aid measures provided.

Skin Causes skin irritation characterized by reddening. Prolonged contact with product may cause discomfort, no adverse effects expected from absorption of material through skin.

Ingestion Not expected to be a primary route of exposure, will produce gastrointestinal discomfort.

Inhalation Not expected to be a primary route of exposure, vapors or mists in unusually high concentration, in poorly ventilated areas may cause irritation of nose and throat characterized by coughing.

3. Composition/ Information on Ingredients

| Component | CAS-No. | %Wt. |
|-------------------|-----------|------|
| Hydrogen Peroxide | 7722-84-1 | 7.9 |
| Water | 7732-18-5 | 92.1 |

4. First Aid Measures

- Inhalation:** Remove to fresh air. If irritation persists, seek medical attention. If breathing has stopped, assist ventilation with a mechanical device or use rescue breathing with a pocket mask.
- Skin:** Wash skin with soap and water. Seek medical attention if irritation occurs and persists.
- Eyes:** Immediately flush with water for 15 minutes, lifting upper and lower lids intermittently. If eye irritation persists, seek medical attention.
- Ingestion:** If swallowed, get immediate medical attention or advice. If victim is conscious and able to swallow, give large amounts of water. Do not give anything by mouth to the person who is unconscious or convulsing. Do not induce vomiting unless directed by a physician.

5. Fire Fighting Measures

| | |
|----------------------------|----------------|
| Flash Point | Not Applicable |
| Auto Ignition Temperature: | Not Applicable |
| Flammable Limits | Not Applicable |
| Classification | Not Flammable |
| Extinguishing Media | Water |

Special Fire Fighting Procedures: NFPA Code: Health 1, Fire 0, Reactivity 1, Special OX

Use water spray to cool fire-exposed surfaces to prevent over-pressure of containers and to protect personnel. Use air-supplied breathing equipment for enclosed areas.

Product is non-combustible. On decomposition from excessive heat it will release oxygen which may intensify fire.

6. Accidental Release Measures

- Containment Procedures** Stop flow of material if without risk. Dike spill with inert material and dilute with water. Hold until Hydrogen Peroxide decomposes. Block any potential routes to water systems, sewers, streams, lakes, etc.
- Clean-Up Procedures** Wear appropriate protective equipment and clothing. Combustible materials exposed to Decon7 Part 2 should be rinsed with water to remove Hydrogen Peroxide. Keep unnecessary personnel away.
- Evacuation Procedures**

7. Handling and Storage

- Handling Procedures** Avoid contact with skin and eyes. Observe good industrial hygiene practices and wash thoroughly after handling.
- Technical Measures** Work practices should minimize contact. Decon7 Part 2 should be stored in vented containers. Avoid excessive heat and contamination. Contamination may cause decomposition and generation of Oxygen gas that may overpressure container. Do not return unused Decon7 Part 2 to original container. Utensils for handling Decon7 Part 2 should only be made of glass, stainless steel, aluminum, or plastic.
- Technical Precautions** Local exhaust is normally not required unless the process produces a mist.
- Storage Procedures** Store in closed vented original container, in well ventilated place, out of direct sunlight, away from combustibles. Prevent from freezing. If frozen, move to warm area.

8. Exposure Controls/ Personal Protection

Ventilation Engineering

Ventilation should effectively remove and prevent any buildup of

any vapor or mist generated from the use of this product

Personal Protection Equipment (PPE)***Respiratory Protection:***

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA rated self-contained breathing apparatus should be used. Do not use a mask containing oxidizable elements.

Skin Protection:

Use Impervious gloves. Use of impervious apron and boots (neoprene, nitrile, pvc) are recommended.

Eye/Face Protection:

Wear safety glasses, chemical goggles or a full face shield.

Other Protective Clothing / Equipment:

Avoid exposure of cotton and leather clothing and footwear to this product. If exposed rinse well before allowing to dry.

9. Physical and Chemical Properties

| | |
|--|---------------------|
| Physical State | Liquid |
| Appearance and Color | water white liquid |
| Boiling Point | 216° F, 102°C |
| Odor | odorless |
| Vapor Pressure @30°C (mmHg) | 31 |
| Vapor Density (air= 1) less than | equivalent to water |
| Solubility in Water | Complete |
| Specific Gravity (H ₂ O= 1) | 1.06 |
| Burning Properties | Not applicable |
| Flammability | Not Flammable |
| Explosive Properties | Not Explosive |
| Flashpoint | Not applicable |
| Auto-ignition temperature | Not applicable |
| pH of Product | 2.5-3.5 |
| Evaporation Rate (Butyl Acetate= 1) | < 1 |
| Viscosity | ≈ water |

10. Stability and Reactivity

Chemical Stability:

This is a chemically stable material. Excessive heat or contamination could cause product to become unstable.

Conditions to Avoid:

Excessive heat or contamination

Materials to Avoid:

Reducing agents, iron, copper alloys

Hazardous Decomposition or Byproducts:

Oxygen which will support combustion.

Hazardous Polymerization

Will not occur.

11. Toxicological Information

| | |
|-----------|--|
| Eyes | Will cause irritation and conjunctivitis depending on length of exposure, solution concentration and first aid measures provided. |
| Skin | Prolonged contact with product may cause discomfort, no adverse effects expected from absorption of material through skin |
| Ingestion | Not expected to be a primary route of exposure. Rat oral LD ₅₀ (of mixed Part 1@49%, Part 2@49%, Part 3@2%) is greater than 5000milligrams/kilogram of body weight. Rat oral LD ₅₀ of Part 2 alone is greater than 5000milligrams/kilogram of body weight. |

Inhalation Vapors or mists in unusually high concentration, in poorly ventilated areas may cause irritation of nose and throat.

Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No

12. Ecological Information

The product is not expected to be hazardous to the environment.

Mobility: This product is soluble in water and will spread in water systems

Degradability: The rate of degradation has ranges from 8 hr. to 20 days in water, 10 – 20 hours in air, and minutes to hours in soil depending upon microbiological activity and metals content.

13. Disposal Considerations

Waste Material Disposal of in accordance with Local, State and Provincial Environmental Regulations. May be diluted, allowing time for decomposition and discharged to suitable treatment system.

Treat container as residue.

14. Transport Information

Not Regulated

15. Regulatory Information

DOT Hazard Class: Not regulated

EPA Hazardous Substances: None

SARA 311/312 Hazards: Immediate (Acute) Health Hazard, Fire
TPQ None

SARA Title III: none

Governmental Inventory Status: All components comply with TSCA, DSL, AICS, NZIoC, ENCS, KECI, PICCS and IECSC.

16. OTHER INFORMATION

| US NFPA Codes | Health | Fire | Reactivity | Special OX |
|---------------|--------|------|------------|---------------|
| | 1 | 0 | 1 | |
| HMIS Codes | Health | Fire | Reactivity | PPE |
| | 1 | 0 | 1 | Section 8 |

The information on this SDS reflects the latest information that we have on hazards, properties, and handling of this product under recommended conditions of use. This company believes this information to be accurate and reliable however, the accuracy and completeness is not guaranteed.

1. PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifiers**

Product name : Diacetin

Product Number : W500615

Brand : Aldrich

CAS-No. : 25395-31-7

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheetCompany : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Synonyms : Glycerol diacetate

Formula : $C_7H_{12}O_5$

Molecular Weight : 176.17 g/mol

CAS-No. : 25395-31-7

EC-No. : 246-941-2

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES**4.1 Description of first aid measures****If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls**Appropriate engineering controls**

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

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

Skin protection

Handle with gloves. 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.

Body Protection

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

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|---|---|
| a) Appearance | Form: clear, viscous liquid Colour: colourless |
| b) Odour | no data available |
| c) Odour Threshold | no data available |
| d) pH | no data available |
| e) Melting point/freezing point | no data available |
| f) Initial boiling point and boiling range | no data available |
| g) Flash point | 110 °C (230 °F) - closed cup |
| h) Evaporation rate | no data available |
| i) Flammability (solid, gas) | no data available |
| j) Upper/lower flammability or explosive limits | no data available |
| k) Vapour pressure | < 1 hPa (< 1 mmHg) at 20 °C (68 °F) |
| l) Vapour density | 6.08 - (Air = 1.0) |
| m) Relative density | 1.17 g/cm ³ at 25 °C (77 °F) |
| n) Water solubility | no data available |
| o) Partition coefficient: n-octanol/water | no data available |
| p) Auto-ignition temperature | no data available |
| q) Decomposition temperature | no data available |
| r) Viscosity | no data available |
| s) Explosive properties | no data available |
| t) Oxidizing properties | no data available |

9.2 Other safety information

Relative vapour density 6.08 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - mouse - 8,500 mg/kg

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: AK3325000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
no data available

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Glycerol 1,3-di(acetate)

CAS-No.
25395-31-7

Revision Date

New Jersey Right To Know Components

Glycerol 1,3-di(acetate)

CAS-No.
25395-31-7

Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION**HMIS Rating**

Health hazard: 0

Chronic Health Hazard:

Flammability: 1

Physical Hazard 0

NFPA Rating

Health hazard: 0

Fire Hazard: 1

Reactivity Hazard: 0

Further information

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Preparation Information

Sigma-Aldrich Corporation

Product Safety – Americas Region

1-800-521-8956

Version: 3.4

Revision Date: 07/09/2014

Print Date: 06/22/2015