

# SAFETY DATA SHEET

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

#### 1.1. Product identifier

#### **Trade name**

**Brake Cleaner** 

#### Product no.

885

### **Unique formula identifier (UFI)**

YND6-5F4T-V20N-2CTM

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

### Relevant identified uses of the substance or mixture

Cleaning liquid

### **Uses advised against**

No special

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

### **Company and address**

#### **Blue & Green AB**

Stenorsvägen 52

261 44 Landskrona

Sweden

+46 418 399000

www.blueandgreen.se

### E-mail

info@blueandgreen.se

#### **Revision**

10/05/2022

### **SDS Version**

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Flam. Liq. 2; H225, Highly flammable liquid and vapour.

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315, Causes skin irritation.

STOT SE 3; H336, May cause drowsiness or dizziness.

Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

### Hazard pictogram(s)









### Signal word

Danger

**Hazard statement(s)** 

Highly flammable liquid and vapour. (H225)

May be fatal if swallowed and enters airways. (H304)

Causes skin irritation. (H315)

May cause drowsiness or dizziness. (H336)

Toxic to aquatic life with long lasting effects. (H411)

### Safety statement(s)

#### General

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### Prevention

Wear eye protection/protective gloves. (P280)

Wash hands and exposed skin thoroughly after handling. (P264)

#### Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)

Do NOT induce vomiting. (P331)

### Storage

Store in a well-ventilated place. Keep cool. (P403+P235)

### Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

#### **Hazardous substances**

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

### 2.3. Other hazards

### **Additional labelling**

Not applicable

#### **Additional warnings**

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics	CAS No.: EC No.: 927-510-4 REACH: 01-2119475133-43- XXXX Index No.:	95-100%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
cyclohexane	CAS No.: 110-82-7 EC No.: 203-806-2 REACH: Index No.: 601-017-00-1	1-3%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1], [3]

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available. **Other information** 

- [1] European occupational exposure limit
- [3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

### Labelling of contents according to Detergents Regulation (EC) No 648/2004

≥ 30%

· Aliphatic hydrocarbons

Brake Cleaner Page 2 of 14



#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

### **General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### **Inhalation**

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap.

If skin irritation occurs: Get medical advice/attention.

#### **Eve contact**

Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.

### **Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

#### Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

### **Information to medics**

Bring this safety data sheet or the label from this product.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2).

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Avoid inhalation of vapours from spilled material.



## **6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

### 6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

#### SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating] equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Because of the danger of self-ignition, any waste from the product, spray mist and soiled rags etc. are to be kept in a fire-proof place in air-tight containers, alternatively the waste is to be burned.

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

### **Recommended storage material**

Always store in containers of the same material as the original container.

### **Storage temperature**

Dry, cool and well ventilated

### **Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

## 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Long term exposure limit (8 hours) (ppm): 500

Long term exposure limit (8 hours) (mg/m³): 2085

cyclohexane

Long term exposure limit (8 hours) (ppm): 100

Long term exposure limit (8 hours) (mg/m³): 350

Short term exposure limit (15 minutes) (ppm): 300

Short term exposure limit (15 minutes) (mg/m³): 1050

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.

Brake Cleaner Page 4 of 14



EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### **DNEL**

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

DNEL 300 mg/kg bw/day

Route of exposure Dermal

Duration Long term – Systemic effects - Workers

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

DNEL 2085 mg/m³ Route of exposure Inhalation

Duration Long term – Systemic effects - Workers

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

DNEL 149 mg/kg bw/day

Route of exposure Dermal

Duration Long term – Systemic effects - General population

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

DNEL 477 mg/m³ Route of exposure Inhalation

Duration Long term – Systemic effects - General population

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

DNEL 149 mg/kg bw/day

Route of exposure Oral

Duration Long term – Systemic effects - General population

### **PNEC**

No data available

#### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### **General recommendations**

Smoking, drinking and consumption of food is not allowed in the work area.

### **Exposure scenarios**

There are no exposure scenarios implemented for this product.

### **Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### **Appropriate technical measures**

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

### **Hygiene measures**

Take off contaminated clothing and wash it before reuse.

### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

### Individual protection measures, such as personal protective equipment

### Generally

Use only CE marked protective equipment.

### **Respiratory Equipment**



	Work situation	Туре	Class		Colour	Standards	
	In case of inadequate ventilation	Α	Class 2 (m	nedium capacity)	Brown	EN14387	(For
Ski	n protection						
	Recommended	Type/Cat	egory		Standards		
	Dedicated work clothing should be worn.	-			-		g
Hai	nd protection						
	Material	Glove thi (mm)	ckness	Breakthrough time (min.)	Standa	ards	
	Nitrile	-		> 480	EN374 EN388	-2, EN374-3,	
Eye	e protection						
	Туре	Standard	ls				
	Safety glasses with side	EN166					

### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

### **Physical state**

Liquid

### **Colour**

Colourless

### **Odour / Odour threshold**

Solvent

# рΗ

Testing not relevant or not possible due to nature of the product.

# Density (g/cm³)

0.717 (15 °C)

### **Kinematic viscosity**

0,5-1,2 mPa.s (20 °C)

### **Particle characteristics**

Does not apply to liquids.

### **Phase changes**

## Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.

### Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

### **Boiling point (°C)**

83-105

# **Vapour pressure**

60 hPa (20 °C)

#### **Relative vapour density**

Testing not relevant or not possible due to nature of the product.

### **Decomposition temperature (°C)**

Testing not relevant or not possible due to nature of the product.

#### Data on fire and explosion hazards

### Flash point (°C)

<0

### Ignition (°C)

Testing not relevant or not possible due to nature of the product.

### Auto flammability (°C)

>200

### Lower and upper explosion limit (% v/v)

0.6 - 7

#### Solubility

### **Solubility in water**

Insoluble

#### n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

#### Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

#### 9.2. Other information

### Other physical and chemical parameters

No data available

### **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special

### 10.4. Conditions to avoid

Avoid static electricity.

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 **Acute toxicity**

Product/substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Test method

**Species** Rat Route of exposure Oral LD50 Test >5840 mg/kg Result

Other information

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Test method



Species Rat

Route of exposure Inhalation

Test LC50 (4 hours)

Result >23.3 mg/L

Other information

Product/substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Test method

Species Rat

Route of exposure Dermal

Test LD50

Result >2920 mg/kg

Other information

Product/substance

cyclohexane

Test method

Species Rat
Route of exposure Oral
Test LD50

Result >5000 mg/kg

Other information

Product/substance

cyclohexane

Test method

Species Rat
Route of exposure Inhalation
Test LC50 (4 hours)
Result 14 mg/m³

Other information

Product/substance

cyclohexane

Test method

Species Rabbit
Route of exposure Dermal
Test LD50
Result >2000 mg/kg

Other information

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

### **Respiratory sensitisation**

Based on available data, the classification criteria are not met.

### **Skin sensitisation**

Based on available data, the classification criteria are not met.

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

### **Reproductive toxicity**

Based on available data, the classification criteria are not met.



### **STOT-single exposure**

May cause drowsiness or dizziness.

### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

### Long term effects

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

### **Endocrine disrupting properties**

No special

### **Other information**

No special

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Test method

Species Fish, Oncorhynchus mykiss

Compartment

Duration 96 hours
Test LC50
Result 13.4 mg/L

Other information

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Test method

Species Daphnia, Daphnia magna

Compartment

Duration 48 hours
Test EC50
Result 3 mg/L

Other information

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Test method

Species Algae, Pseudokirchneriella subcapitata

Compartment

Duration 72 hours
Test EC50
Result 10-30 mg/L

Other information

Product/substance Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Test method

Species Daphnia, Daphnia magna

Compartment

Duration 21 days
Test NOEC
Result 0.17 mg/L

Brake Cleaner Page 9 of 14



Other information

Product/substance

cyclohexane

Test method

Species Fish, Leuciscus idus

Compartment

Duration 48 hours
Test LC50
Result 55 mg/L

Other information

Product/substance

cyclohexane

Test method

Species

Daphnia, Daphnia magna

Compartment

Duration 48 hours
Test EC50
Result 3.78 mg/L

Other information

Product/substance

cyclohexane

Test method

Species Algae, Desmodesmus subspicatus

Compartment

Duration 72 hours
Test EC50
Result >500 mg/L

Other information

### 12.2. Persistence and degradability

Product/substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Biodegradable Test method

Result

Product/substance

cyclohexane

Biodegradable

Test method

Result

No

### 12.3. Bioaccumulative potential

Product/substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Test method

Potential

No

bioaccumulation

LogPow No data available BCF No data available

Other information

Brake Cleaner Page 10 of 14



Product/substance cyclohexane

Test method

Potential No

bioaccumulation

LogPow No data available BCF No data available

Other information

### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### 12.6. Endocrine disrupting properties

No special

#### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 3 - Flammable

HP 4 - Irritant (skin irritation and eye damage)

HP 14 - Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

### **EWC code**

07 06 04\* Other organic solvents, washing liquids and mother liquors

### **Specific labelling**

Not applicable

### **Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

#### **SECTION 14: Transport information** Other information 14.1 UN / 14.2 UN proper shipping 14.3 Hazard class(es) 14.4 14.5 Env\*\* ID name PG\* UN1206 **HEPTANES** Class: 3 Π Yes Limited quantities: 1 ADR Labels: 3 Classification code: **Tunnel restriction** code: (D/E) See below for additional information. IMDG UN1206 Limited quantities: 1 **HEPTANES** Class: 3 Yes Labels: 3

Brake Cleaner Page 11 of 14



	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
			Classification code: F1			EmS: F-E S-D See below for additional information.
IATA	UN1206	HEPTANES	Class: 3 Labels: 3 Classification code: F1	II	Yes	See below for additional information.

<sup>\*</sup> Packing group

#### **Additional information**

IMDG / See the Dangerous Goods List, section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

#### 14.6. Special precautions for user

Not applicable

## 14.7. Maritime transport in bulk according to IMO instruments

No data available

### **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

### **Demands for specific education**

No specific requirements

#### **SEVESO - Categories / dangerous substances**

P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

### **Additional information**

Not applicable

#### **Sources**

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

## 15.2. Chemical safety assessment

Brake Cleaner

<sup>\*\*</sup> Environmental hazards

No

#### **SECTION 16: Other information**

### Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

H336, May cause drowsiness or dizziness.

H400, Very toxic to aquatic life.

H410, Very toxic to aquatic life with long lasting effects.

H411, Toxic to aquatic life with long lasting effects.

### **Abbreviations and acronyms**

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the

Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

**UN = United Nations** 

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

### **Additional information**

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the substance/mixture in regard of physical hazards has been based on experimental data.



### The safety data sheet is validated by

Åsa Möller

### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en

Brake Cleaner Page 14 of 14