Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: **1** of **13** 



# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : STARDUR DF 475 GRAY RAL 7038 COMPONENT A

Code : 12254206

Main recommended uses : Coating for industrial sector

Address : Rodovia BR 280 - km 50

CEP 89270-000, Guaramirim - SC

Telephone : +55 47 3276-4000

Emergency telephone

number

0800 720 8000

E-mail / site : tintas@weg.net | www.weg.net

# 2. HAZARD IDENTIFICATION

Mixture classification

Flammable liquids : Category 3

Skin Corrosion/irritation : Category 2

Carcinogenicity : Category 1B

Classification according to NBR 14725-2/2009

### **Labelling Elements**







Warning phrase : Danger

**Hazard phrases** : H226 Flammable liquid and vapour.

H315 Causes skin irritation. H350 May cause cancer.

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: **2** of **13** 



#### **Caution Phrases**

#### Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

#### Reaction:

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P308+P313 IF exposed or concerned: Call a doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use as chapter 5 of MSDS to extinguish.

# Storage:

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

# Treatmentand disposal of waste:

P501 Dispose of contents/container as chapter 13 of the MSDS.

# Other hazard

When heated above its flash point, this material will release toxic vapors and flames, and can burn in open area if exposed to an ignition source.

# 3. COMPOSITION AND INFORMATION ABOUT THE INGRENDIENTS

Product type: : Mixture

#### Ingrendients that contribute to danger:

Product name	CAS No.	Risck classification	Concentration [%]
SOLVENT ALKYLBENZENE	64742-95-6	Flammable liquids , Category 3 Aspiration hazard , Category 1 Specific target organ toxicity - Single exposure , Category 3 Skin Corrosion/irritation ,	>= 0,1 - < 1

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: **3** of **13** 



25.00.2	1 age. 3 01 13
25.00.2	Category 3 Germ cell mutagenicity , Category 2 Carcinogenicity ,
	Category 1B Hazardous to the aquatic environment -
	Acute , Category 2 Acute toxicity Ingestion,
	Category 5 Specific target organ toxicity - Repeated exposure,
	Category 2 Aspiration hazard , Category 1

#### 4. FIRST AID MEASURES

Inhalation : Take the victim to fresh air, keeping them rested and warm. If

breathing is irregular or has stopped, apply artificial respiration. Do not give anything orally. Seek medical assistance immediately, bringing the product label whenever

possible.

Contact with the skin : Remove the product with vegetal oil (cooking oil) and then

wash the skin thoroughly with plenty of water. Do not use solvents or thinners. Seek medical attention in case of any

irritation or other symptoms.

Contact with the eyes : Remove contact lenses, if wearing any. Flush the eyes with

running water for at least 15 minutes, holding the eyelids apart. Seek medical assistance immediately, bringing the

product label with you.

**Ingestion** : Do not provoke vomiting. Consult with a doctor immediately.

Most important symptoms : and effects, both acute and

delayed

Notes for the doctor : Treat s

: Headaches, dizziness, fatigue and in extreme cases, loss of

consciousness.

: Treat symptomatically. Do not induce vomiting because of risk of aspiration of gastric contents into the lungs. Gastric lavage is recommended when the patient ingests large quantities, more than 5ml of the substance in its pure form. The toxic potential of the quantity consumed must be evaluated in relation to the risk of aspiration during gastric lavage.

Activated coal in solution could be useful. However, in some

cases the coal induces vomiting.

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: 4 of 13



# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing

methods

: Water in mist form Carbon dioxide (CO2) Foam alcohol resistent Dry chemical powder

**Extinguishing methods not**: Direct water jet.

recommended

Specific dangers

: Flammable liquid and vapour. Dangerous when exposed to heat or ignition source. Exposed packaging to the fire may rupture due to the increased pressure with risk of a subsequent explosion. The vapours are havier than the air and spread close to the ground and it can move to the ignition source and provoke fire or backspace of the flames. Avoid the accumulation of vapours in depressions on the ground, manholes, basement etc. The vapours and/or the particles finely divided (spray) may form explosive mixtures with the air. In case of burning of the product, it forms carbon and nitrogen compounds. The inhalation of these subproducts may cause damage to health.

Protective measures of the

fire fighting team.

: The personnel involved in firefighting should wear self contained breathing apparatus with positive pressure and full

protection clothes.

Specific methods

: Evacuate and isolate the area. Approach from fire with wind at your back. Fight the fire to a secure distance. Remove the packaging of the product from the fire area if this can be made with safety. Chill sideways with water in form of fog all the closed packaging near the fire. Avoid that the resulting water from fire fighting reaches drains or waterways. Use dikes to contain this water and eliminate it according to environmental

regulations.

# 6. SPILL / LEAK CONTROL PROCEDURES

# Personal precautions, protective equipment and emergency procedures

For the emergency service staff

: If specialized clothing is needed to combat the leak/spillage, Section 8 should be consulted. All precautions described in

the following section must be followed.

For staff who are not part of the emergency services : No action should be taken that may generate danger to

people without adequate training and

qualifications. Understand the dangers of leaked/spilled products. Use appropriate personal protective equipment -

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: **5** of **13** 



see section 8. Evacuate surrounding areas. Isolate area and keep onlookers away. Do not touch or walk through spilled material. Eliminate all sources of ignition. Avoid breathing vapor or mist. Provide adequate ventilation if possible. Wear appropriate respiratory mask when ventilation is inadequate. In accordance with characteristics of the location and/or area and in relation to the amount of spilled/leaked product, additional emergency measures may be taken under the supervision of a trained professional.

#### **Environmental precautions**

: Prevent the product or the water used in the service reaches

waterways,

channels, drains, or galleries. In case of significant spill, retain

spi

lled liquid with inert material such as sand or earth. In

approprieate,

use absorbent materials such as sawdust, rags, vermiculites,

etc.

# Methods and materials for containment and cleaning

# Large spills / leaks

: Understand the dangers of leaked/spilled products. Approaching the site with the wind from behind. Stop leak if this can be done safely. Prevent from entering holes / depressions in the floor. If this happens to provide ventilation. Confine the spill in a dike away from the leak point for later disposal. Remove local packaging from the spills site. Use anti sparkling tools and explosion-proof equipment to collect the product. All equipment used when handling the product must be electrically grounded. Soak up with an inert dry material (sand, vermiculite) placing the same in a suitable container for later disposal - see chapter 13.

#### Small spills / leaks

: Stop the leak if this can be done safely. Cover up spillage in a tarp to prevent the spread by wind or rain. Use antifaiscantes tools and explosion-proof equipment properly grounded to collect the product. Place the material collected in dry, clean and properly identified containers. Cap the container loosened so removing them from the spill site. Avoid formation of dust. Remove the packaging from the spill site. If there is product disposal need refer to chapter 13

Contain and collect the material of the leak with absorbent materials and non-combustible, such as sand, earth, vermiculite, calcined diatomite, etc. in a waste container in accordance with local regulations.

#### 7. HANDLING AND STORAGE

# Precautions for safe handling

Instructions for safe : Use individual protective equipment. Emergency showers and

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: **6** of **13** 

# Шец

#### treatment

eye wash basins must be installed in locations of use and storage.

# Precautions for safe handling

: Use appropriate personal protective equipment - see section 8; The product handling should occur in places with good natural ventilation or with the presence of local exhaust ventilation; The electrical installations must comply with the International Electrical Commission Standards (IEC), ABNT Standards (Brazilian Association of Technical Standards), taking into account the results of the classification area study for the local and/or product instalation.

Use anti-sparking tools when handling the product; In transfer operations, metal containers must be used and all containers must be properly grounded to avoid sparkling by the accumulation of static energy; Handle and use away from hot surfaces, sparks, open flames, and other sources of ignition. Do not smoke; Do not ingest. Avoid inhalation of vapors or smoke as well as avoid contact with eyes, skin and clothing: Eating and drinking should be prohibited in the area where the material is handled, stored and processed. Workers should wash their hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering food areas; After use keep the product in its original packaging, sealed; Empty containers may be hazardous and should be disposed of properly. Do not reuse the packaging; Emergency showers and eye washer should be installed in the use and storage places.

Do not handle the product until you have read and understood all safety precautions contained in this document.

# Fire protection

: Only use in well-ventilated locations, to prevent accumulation of vapors in explosive concentrations. All conductive elements of the system, in contact with the product, must be electrically grounded Keep away from heat and sources of ignition. Tools that do not produce sparks should be used. Do not smoke.

#### Storage conditions

Substances to be avoid

: Keep away from oxidising agents, strong acid solutions and strong alkaline solutions.

#### Storage conditions

: The electrical installation must comply with NEC(National Electrical Code) or IEC (International Electrical Commission) standards and/or those of the ABNT (Brazilian Association of Technical Standards). The floor of the storage area must be impermeable, non-combustible and must have ditches that allow run off into the containment reservoir. Storage tanks must be surrounded by embankments and have drains in case of leakage.

# Appropriate storage conditions

: Store the material in covered, dry, well ventilated and identified areasKeep out of direct sunlight.Store in a closed container.

# Inappropriate storage conditions

: Exposed to elevated temperatures, sun and rain. Close to oxidizing agents. Close to food. Close to sources of heat and ignition.

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: **7** of **13** 

Materials to avoid : Do not store with explosive materials, flammableand/or toxic

gases, oxidizing, corrosive substances, or materials that may

generate spontaneous combustion.

Secure packaging materials

Recommended packaging

materials

Amber type glass. Metal packaging

Packaging materials to be

avoided

: Certain plastic materials

#### 8. EXPOSURE CONTROL - PERSONAL PROTECTION

The information in this chapter contain general guidelines. Chapter 1 should be consulted for any information on the recommended use of this product in different scenarios of exposure.

Engineering control measures

Preferably use the product in adequate application cabin. In case it is not possible, provide exhaustion/ventilation enough to keep the concentration of the agents indicated in this section under the limits of tolerance (L.T.), otherwise, use adequate respiratory protection equipment. The engineering controls should keep the concentrations of gas/vapour under the limit of LEL - Lower Explosive Limit (see section 9). Use equipment explosion proof.

# **Control parameters**

#### Occupational Exposure Limits

Name	CAS No.	TLV/TWA	TLV/STEL	TLV/TETO	Source
SOLVENT	64742-95-6	50 ppm			ACGIH
ALKYLBENZENE					

<sup>\*</sup>PPM - parts of vapour or gas per million of parts of contaminated air

#### Personal protective equipment required

**Respiratory protection**: In case of the concentrations are above the indicated

tolerance limits, the use of appropriated mask is necessary for this goal (half-face mask or full face mask

with filter to organic vapors and acid gases).

**Hand protection** : Use nitrilic gloves associated with the use of the adequate

protection cream



<sup>\*\*</sup>MG/m3 - miligrams per cubic meter of air.

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: **8** of **13** 

**Eye protection** : Use hermetic goggles to protect against liquid splashes.

Body and skin protection : It is recommended the use of apron barber type to

protecting upper limbs, trunk and lower limbs in case of splash. In case of risk of static electricity generation the

cloth should be antistatic, includin the apron.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

State of matter : Liquid Color : Gray

Odour : Distinctive

Odour limit : Not applicable

pH : Not applicable

Melting point: Data not available.Boiling point: Data not available.

Flash Point (Open cup) : 28 °C

**Evaporation rate** : Data not available.

**Inflammation point** : Method: Data not available.

Upper explosive limit :

Data not available.

Lower explosive limit :

Data not available.

Vapor pressure : Data not available.

Density : 1,45 - 1,55 g/cm³

Solubility(ies) : Water-insoluble

N-octano /water partition

coefficient

Data not available.

**Auto flammability** : Data not available.

Cinematic viscosity (25°C) : 0 - 100 UK (A+B)

Vapor density : Data not available.

# 10. STABILITY AND REACTIVITY



Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: **9** of **13** 

**Reactivity** : Presents no reactivity at room temperature and under normal

conditions of use.

Chemical stability : Stable at room temperature and under normal conditions of

use. Unstable at temperatures above the flash point.

Possibility of dangerous

reactions

Presents no reactivity at room temperature and under normal

conditions of use.

None when the product is stored, applied and processed

correctly.

Need to add additives and

inhibitors

Not necessary.

**Conditions to avoid** : Extreme heat and open flame.

Incompatible materials : Do not store with explosive materials, flammableand/or toxic

gases, oxidizing, corrosive substances, or materials that may

generate spontaneous combustion. Plastic materials soluble in Xylene.

**Dangerous products of** 

decomposition

Produces noxious gases such as carbon monoxide (CO),

carbon dioxide (CO2) and nitrogen oxides (NOx).

# 11. TOXICOLOGICAL INFORMATION

Components

**SOLVENT ALKYLBENZENE** 

Acute toxicity by oral

use

Test species

DL50

Observations

Acute toxicity by

inhalation

Test species

DL50

Observations

Data not available.

2.908,7 mg/kg

Acute toxicity by

cutaneous use

Test species

DL50

Rabbit

Rat

Rat

Ob

Observations

Data not available.

Data not available.

Acute toxicity (other

methods of administration)

: Test species

DL50 LC50

Non-standard unit value

Corrosion/irritation of

skin

: Category 3

Serious eye damage/eye

irritation

: Data not available.

Respiratory or dermal

sensitivity

: Data not available.

Mutageneses

: Chemicals considered to induce heritable mutations in human



Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

29.08.2017 Last revision: Page: 10 of 13

germ cells

Carcinogenicity : Presumed to have carcinogenic potential for humans.

Toxic effects for reproduction

Suspected of causing reproductive toxicity or human

development

Specific target organ toxicity (STOT) - single exposure

: Passengers effects on organ target . These are effects that

alter human function for a short period of exposure

Specific target organ toxicity (STOT) - repeat exposure

: Substance based on evidence from studies in experimental animals can probably present a potential to be harmful to

human health on repeated exposure

Not classified in terms of toxicity based on the data available.

#### 12. ECOLOGICAL INFORMATION

The product easily infiltrates into the soil Stability in soil

Other toxicological

observations

Data not available.

**Ecotoxicity** Contaminates the ground water.

> Detrimental to the fauna Detrimental to the flora.

#### 13. DIOSPOSAL AND TREATMENT CONSIDERATIONS

# Recommended methods for final disposal

**Product** : Class I Waste - Dispose of in industrial landfill or a facility

authorized for recycling in accordance with federal, stateor

local regulations

Waste Class I Waste - Dispose of in industrial landfill or a facility

authorized for recycling in accordance with federal, stateor

local regulations

**Used packaging** Clean packaging should be sent for recycling. Packaging with

class I waste should be disposed of in industrial landfill or a facility authorized for recycling in accordance with federal,

state or local regulations.

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: 11 of 13



# 14. TRANSPORTATION INFORMATION

Land

ONU : 1263

3 Class of risk Risk number : 30 **Packaging group** : 111 Name Tinta

**Shipping** 

ONU : 1263 Class of risk : 3 **Packaging group** : 111 **EmS** F-E **MFAG** 310

Appropriate name for dispatch

Tinta

Air transport

ONU : 1263 Class of risk : 3 Packaging group : 111 Appropriate name for Tinta

dispatch

# 15. REGULATORY INFORMATION

This MSDS (Material Safety Data Sheet) was generated according to the criteria of NBR 14725/2014. (Brazilian standard that defines the GHS).

Federal Decree No. 2657, July 3rd, 1998. Specific Regulations for the Chemical Product. Law No. 12305, August 2nd 2010 (Solid Waste National Policy). Decree No. 7404, December 23rd, 2010. Ordinance No. 229, May 24th, 2011 - Changes to Regulatory Standard No. 26. ABNT NBR 14725: 2014.

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: **12** of **13** 



# **16. ADDITIONAL INFORMATION**

#### **Acronyms Used:**

#### Legenda:

VO NEC	Organic Vapors  National Eletrical code/Código Nacional de Eletricidade
IFC·	Intermedianal Eletrical Commission
ILC.	International Eletrical Commission
ABNT	Brazilian Association of Technical Standards
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Values
TLV/TWA	Time Weighted Average
TLV/STEL	Short Term Exposure Limit
TLC/C:	Tolerance Limit - Ceiling Value
EPI:	Individual Protective Equipment
CA	Approval Certificate
PPRA	Environmental Risk Prevention Program
NR	Regulatory Standard
NFPA	National Fire Protection Agency
mmHg	Millimeters of mercury - pressure unit
DL50	Lethal Dose average
CL50	Lethal Concentration average
ppm	Parts per million
N.d	Not available
A+B	Viscosity of the mixture of component A + component B

Important information, but not specifically described in the previous sections:

This MSDS was prepared based on current knowledge about the handling of the product under normal conditions of use, according to the application specified on the packaging and recommended usage in Section 1 of this MSDS. Any other use of the product involving its combination with other materials, as well as forms of use different from those indicated, are the user's responsibility. The company advises that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace it is responsibility of the company user of the product to provide training of its employees and contractors about the possible risks arising from exposure to the chemical.

We reserve the right to change the information contained in this document without prior notice, due to the improvement and continuous evolution of the product and technical knowledge.

Vertical lines in the left hand margin indicate changes from the current version

Product name STARDUR DF 475 GRAY RAL 7038 Code 12254206

**COMPONENT A** 

Last revision: 29.08.2017 Page: 13 of 13

