



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Name: Wood Flush Cut Wheel US600-1

Product Description: Tungchip

Date of issue: May 14, 2015

Manufacturer/Distributor:
Robert Bosch Tool Corporation
1800 W. Central Road
Mt. Prospect, IL 60056

For More Information Call:
(Monday-Friday, 8:00 AM– 5:00 PM CST)
Bosch Customer Service
(877) 267-2499

In Case Of Emergency Call:
(24 Hours/Day, 7 Days/Week)
(877) 303-0891

SECTION 2: HAZARDS IDENTIFICATION

May Cause sensitisation by inhalation and skin contact

Hazard Description:

Odorless

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Labeling according to Regulation (EC) No 1272/2008

Non-Regulated Material

Hazard pictograms

Non-Regulated Material

Signal word:

Non-Regulated Material

Hazard statements:

Non-Regulated Material

Additional information:

78 percent of the mixture consists of component(s) of unknown toxicity. Contains 98 % of components with unknown hazards to the aquatic environment.

Other hazards

None known

· Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of substances listed below with nonhazardous additions.

Components		
CAS: 7440-48-4 EINECS: 231-158-0 RTECS: GF 8750000	Cobalt Xn R42/43 R53 Resp. Sens. 1, H334; Skin Sens. 1, H317; Aquatic Chronic 4, H413	15-35%
CAS: 12070-08-5 EINECS: 235-120-4	Titanium Carbide Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≤2.5%

SECTION 4: FIRST AID MEASURES

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and wash clothing before reuse. Get medical attention if symptoms occur.

After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

If swallowed and symptoms occur, consult a doctor.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

Product can be considered a nuisance dust which can have an explosive reaction if in high concentrations.

Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Not required.

Environmental precautions:

Do not allow to enter sewers, surface or ground water.

SECTION 7: HANDLING AND STORAGE

Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.

Information about fire - and explosion protection:

No special measures required.



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Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Respiratory protection:

Use NIOSH approved, dual cartridge respirators for dusts or mists if local ventilation is inadequate (N, R or P class filter media with NIOSH approved prefix TC-84A).

Protection of hands:

Protective gloves

Material of gloves:

The selection of the suitable gloves depends on the material, and marks of quality, and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:

Solid

Color:

Dark grey

Odor:

Odorless

pH-value:

Not applicable.

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

2870 °C

Flash point:

Not applicable.

Flammability (solid, gaseous):

Not determined.

Decomposition temperature:

Not determined.

Self-igniting:

Product is not self-igniting.

Danger of explosion:

Product does not present an explosion hazard.



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Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure:

Not applicable.

Relative density:

Not determined.

Vapor density:

Not applicable.

Evaporation rate:

Not applicable.

Solubility in / Miscibility with water:

Insoluble.

Partition coefficient (n-octanol/water):

Not determined.

Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

Solvent content:

Organic solvents: 0.0 %

Solids content: 100 %

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

No further relevant information available.

Chemical stability:

Stable under normal conditions.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions:

No dangerous reactions known.

Conditions to avoid:

No further relevant information available.

Incompatible materials:

Strong acids

Strong oxidizing agents, strong reducing agents

Hazardous decomposition products:

Metallic dust or fumes may be produced during welding, burning, grinding, and machining.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:

LD/LC50 values relevant for classification:

7440-48-4 Cobalt

Oral LD50 6170 mg/kg (rat)

Primary irritant effect:

on the skin: May cause an allergic skin reaction.

on the eye: No irritating effect.

Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.



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Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful/ Irritant

SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity:

No further relevant information available.

Persistence and degradability

No further relevant information available.

Bioaccumulative potential

No further relevant information available.

Mobility in soil

No further relevant information available. Not known to be hazardous to water. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Non-Regulated Material: NA

SECTION 15: REGULATORY INFORMATION

Labeling according to Regulation (EC) No 1272/2008:

Non-Regulated Material

Hazard pictograms

Non-Regulated Material

Signal word:

Non-Regulated Material

Hazard statements:

Non-Regulated Material

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Although Robert Bosch Tool Corporation has attempted to provide current and accurate information herein, Robert Bosch Tool Corporation makes no representations regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, injury of any kind which may result from or arise out of the use of or reliance on the information by any person.



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It shall be the responsibility of the customer purchasing this product to ensure that all employees/users of this product are familiar with and trained in the handling, use and hazards associated with this product as contained herein. This responsibility shall also extend directly to the user.