

Page 1/10

Safety Data Sheet acc. to OSHA HCS

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

1 Identification

- · Product identifier
- · Trade name: Tandus C-77 Seam Cleaner
- · Relevant identified uses of the substance or mixture. Cleaner
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Royal Adhesives & Sealants, LLC 863 South East Main Street Simpsonville, SC 29681 (864) 967-7691

Supplier:

Tandus Centiva

A Tarkett Company

- · Information department: Environment protection department.
- · Emergency telephone number:

ChemTrec: Day or Night within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

· Classification of the substance or mixture



Flam. Liq. 2 H225 Highly flammable liquid and vapor.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS02

- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapor.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

 $Use\ explosion-proof\ electrical/ventilating/lighting/equipment.$

Wear protective gloves / eye protection / face protection.

Ground/bond container and receiving equipment.

Keep container tightly closed.

Use only non-sparking tools.

Take precautionary measures against static discharge.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use for extinction: CO2, powder or water spray.

(Contd. on page 2)

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

Trade name: Tandus C-77 Seam Cleaner

(Contd. of page 1)

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



1 Health = 1

Fire = 3

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture: consisting of the following components.

· Hazardo	us components:	
<i>78-93-3</i>	methyl ethyl ketone	50-100%
67-64-1	acetone	25-50%

4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eve contact:

Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

- · After swallowing: Immediately call a doctor.
- · Information for 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.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

Use fire fighting measures that suit the environment.

· Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

Trade name: Tandus C-77 Seam Cleaner

(Contd. of page 2)

· Advice for firefighters

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

· Protective equipment: Protective clothing and respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Avoid prolonged or repeated contact with skin.

Avoid contact with eyes.

Wash thoroughly after handling.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location away from direct heat.
- · Information about storage in one common storage facility: Store away from oxidizing agents.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

Trade name: Tandus C-77 Seam Cleaner

(Contd. of page 3)

· Control parameters

Control parameters				
· Components with limit values that require monitoring at the workplace:				
<i>78-9</i> .	78-93-3 methyl ethyl ketone			
PEL	Long-term value: 590 mg/m³, 200 ppm			
REL	Short-term value: 885 mg/m³, 300 ppm			
	Long-term value: 590 mg/m³, 200 ppm			
TLV	Short-term value: 885 mg/m³, 300 ppm			
	Long-term value: 590 mg/m³, 200 ppm			
	BEI			
67-64-1 acetone				
PEL	Long-term value: 2400 mg/m³, 1000 ppm			
REL	Long-term value: 590 mg/m³, 250 ppm			
TLV	Short-term value: 1187 mg/m³, 500 ppm			
	Long-term value: 594 mg/m³, 250 ppm			
	BEI			
· Ingredients with biological limit values:				
78-93-3 methyl ethyl ketone				
RFI	2 ma/I			

BEI 2 mg/L

Medium: urine Time: end of shift Parameter: MEK

67-64-1 acetone

BEI 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment (see listings below)
- · 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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 5)

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

Trade name: Tandus C-77 Seam Cleaner

(Contd. of page 4)

· 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 with side shields.



Tightly sealed goggles

· Body protection:

Protective work clothing

Apron

Emergency showers and eye wash stations should be available.

formation on basic physical and chemical properties			
njormation on basic pnysical ana c General Information	nemical properties		
Appearance:			
Form:	Liquid		
Color:	Clear		
Odor:	Characteristic		
Odor threshold:	Not determined.		
oH-value:	Not determined.		
Change in condition			
Melting point:	Undetermined.		
Boiling point:	56 °C (133 °F)		
Flash point:	-4 °C (25 °F)		
Flammability (solid, gaseous):	Not applicable.		
gnition temperature:	465 °C (869 °F)		
Decomposition temperature:	Not determined.		
Auto igniting:	Product is not selfigniting.		
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.		
Flammable limits:			
Lower:	1.8 Vol %		
Upper:	13.0 Vol %		
Vapor pressure at 20 °C (68 °F):	233 hPa (175 mm Hg)		
Specific gravity at 20 °C (68 °F):	0.79 g/cm³ (6.593 lbs/gal)		
Relative density	Not determined.		
Vapor density	Not determined.		
Evaporation rate	Not determined.		
Solubility in / Miscibility with			
Water:	Not miscible or difficult to mix.		

(Contd. on page 6)

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

Trade name: Tandus C-77 Seam Cleaner

(Contd. of page 5)

Viscosity:
Dynamic:
Kinematic:
Not determined.
Not determined.

· Solvent content:

Organic solvents: 100.0 %

VOC (Per EPA 24)Not Available GMS/LOther informationGrams VOC/Liter 400.0

Grams VOC/Liter [less water. less exempts] 799.0

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · 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 oxidizers, acids, and bases.

Reacts with alkali and metals.

Reacts with halogenated compounds.

· Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for cla
--

78-93-3 methyl ethyl ketone

 Oral
 LD50
 3300 mg/kg (rat)

 Dermal
 LD50
 5000 mg/kg (rabbit)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 7)

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

Trade name: Tandus C-77 Seam Cleaner

(Contd. of page 6)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number				
· DOT. ADR. IMDG. IATA	UN1993			

· UN proper shipping name

· DOT, IMDG, IATA FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))

· ADR 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))

- · Transport hazard class(es)
- $\cdot DOT$



· Class 3 Flammable liquids

(Contd. on page 8)

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

Trade name: Tandus C-77 Seam Cleaner

(Contd. of page 7) 3 · Label · ADR, IMDG, IATA 3 Flammable liquids · Class · Label · Packing group · DOT, ADR, IMDG, IATA II· Environmental hazards: Not applicable. · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): · EMS Number: *F-E*,<u>*S-E*</u> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE)), 3, II

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- $\cdot \textit{Section 355 (extremely hazardous substances):} \\$

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· (DSL) Canada Dosmestic Substance List

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· New Jersey Right-to-Know List:

None of the ingredients is listed.

· New Jersey Special Hazardous Substance List:

None of the ingredients is listed.

(Contd. on page 9)

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

Trade name: Tandus C-77 Seam Cleaner

(Contd. of page 8) · Pennsylvania Right-to-Know List: None of the ingredients is listed. · Pennsylvania Special Hazardous Substance List: None of the ingredients is listed. · Cancerogenity categories · EPA (Environmental Protection Agency) 78-93-3 methyl ethyl ketone 67-64-1 acetone Ι · TLV (Threshold Limit Value established by ACGIH) 67-64-1 acetone A4· MAK (German Maximum Workplace Concentration) None of the ingredients is listed. · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.

· National regulations:

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- · Department issuing SDS: Environment protection department.
- · Creation Date: 02/28/2012
- · Date of preparation / last revision 03/20/2016 / -
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

 ${\it IATA: International Air Transport Association}$

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

(Contd. on page 10)

Page 10/10

Safety Data Sheet acc. to OSHA HCS

Printing Date 03/20/2016 Revision Number 1 Revision Date 03/20/2016

Trade name: Tandus C-77 Seam Cleaner

(Contd. of page 9)

BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids, Hazard Category 2