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**MEDITERRANEAN ACTION PLAN (MAP)  
REGIONAL MARINE POLLUTION EMERGENCY RESPONSE CENTRE FOR THE  
MEDITERRANEAN SEA (REMPEC)**

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**TERMS OF REFERENCE**

**FOR THE PROVISION OF IT SERVICES FOR THE DEVELOPMENT OF  
THE MARITIME INTEGRATED DECISION SUPPORT INFORMATION SYSTEM ON  
TRANSPORT OF CHEMICAL SUBSTANCES (MIDSIS-TROCS 4.0)**

**June 2020**

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**FOR THE PROVISION OF IT SERVICES FOR THE DEVELOPMENT OF**  
**THE MARITIME INTEGRATED DECISION SUPPORT INFORMATION SYSTEM ON TRANSPORT**  
**OF CHEMICAL SUBSTANCES**  
**(MIDSIS-TROCS 4.0)**

**INTRODUCTION**

1. The Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC) is a Regional Activity Centre established within the framework of the Mediterranean Action Plan (MAP) of the United Nations Environment Programme (UN Environment), also referred to as UN Environment / MAP, with a view to coordinating the activities of the Mediterranean coastal States related to the implementation of the Protocol concerning Cooperation in Preventing Pollution from Ships and, in Cases of Emergency, Combating Pollution of the Mediterranean Sea ("the 2002 Prevention and Emergency Protocol") to the Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean ("the Barcelona Convention"). The Centre is based in Malta, hosted by the Maltese Government and is administered by the International Maritime Organization (IMO) in cooperation with UN Environment / MAP.
2. With a view to assisting the Contracting Parties in the implementation of the 1976 Emergency Protocol and the 2002 Prevention and Emergency Protocol, the REMPEC mobilised various sources of funding, including EU funding mechanisms. The Western Mediterranean Region Marine Oil and HNS Pollution Cooperation Project ([West MOPoCo Project](#)) co-financed by the European Union Civil Protection DG ECHO - EC, is being implemented by REMPEC together with the Western Mediterranean coastal States and other partners, between 2019 and 2020.

**The Western Mediterranean Region Marine Oil and HNS Pollution Cooperation (West MOPoCo) Project**

3. The West MOPoCo Project supports Algeria, France, Italy, Malta, Monaco, Morocco, Spain and Tunisia in strengthening their collaboration and cooperation in the field of preparedness for and response to oil and HNS marine pollution by enhancing the quality and interoperability of their response capacities.
4. This Project, coordinated by *Secrétariat Général de la Mer* (SGMer), is implemented through an inter-regional effort, including participation of REMPEC, the OSPAR/Bonn Agreement and the Helsinki Commission (HELCOM), and with the technical support of expert institutions such as ITOFF, the French Centre of Documentation, Research and Experimentation on Accidental Water Pollution (Cedre) as well as the Italian Institute for Environmental Protection and Research (ISPRA).
5. The general objectives of this project are:
  - .1 to increase the efficiency of assistance provided to oil and chemical marine pollution emergencies in the Western Mediterranean region in cooperation with the civil protection, the maritime and environment administrations and international experts;
  - .2 to Developing a harmonised methodology to improve the quality and interoperability of response capacities and plan; and
  - .3 to gradually improve the framework of cooperation at the national level and establish synergies between the existing Sub-regional plans and between the Secretariat of Regional Seas Programmes (REMPEC, HELCOM and OSPAR/Bonn Agreement) in order to the improve of the quality and interoperability of macro-regional response capacities.
6. The Project is composed of six (6) working packages (WP) to achieve its objectives:
  - .1 WP1: Management and Coordination of the Action
  - .2 WP2: Project Dissemination/Publicity: Project Website development, Media and stakeholder outreach, promotion at external events

- .3 WP3: Update of decision support tools: New Inter-regional HNS Response Manual developed linked to an updated version of the existing Maritime Integrated Decision Support Information System on Transport of Chemical Substances (MIDSIS-TROCS),
- .4 WP4: Assessment of National oil spill contingency planning: Harmonization of the use of the Readiness Evaluation Tool for Oil Spills Programmes in the Mediterranean for the self-assessments of the planification and preparedness for oil spill response
- .5 WP5: Emergency Procedures: Manuals for the mobilisation of response equipment and experts in case of emergency, and Synergy between the existing Sub-regional plans to enhance cooperation.
- .6 WP6: Workshops and Trainings.

## Context

7. Under the West MOPoCo Project WP 3 (Update of decision support tools), REMPEC is responsible for the activity 3.2 "Update and upgrade of MIDSIS-TROCS" to update the existing version of MIDSIS-TROCS. This activity is closely linked with the activity 3.1 "Inter-regional HNS Response Manual" of the same WP which consists in a joint inter-regional effort between REMPEC and the respective Secretariats of the Bonn Agreement and HELCOM, assisted by Cedre, ISPRA and ITOF (the project partners) to develop a new manual combining their respective existing HNS manuals namely: the "Practical Guide for Marine Chemical Spills (REMPEC, 2000), the HELCOM Manual on Co-operation in Response to Marine Pollution within the framework of the Convention on the Protection of the Marine Environment of the Baltic Sea Area (HELCOM, 2002) and the Bonn Agreement Counter-Pollution Manual (2001).
8. The Inter-regional HNS Response Manual, here after referred as the HNS Manual, is currently under preparation by the project partners and should be ready by the end of 2020. The HNS Manual will replace the existing manuals integrated in the current version 3.0 of MIDSIS-TROCS, here after referred as MIDSIS-TROCS 3.0<sup>1</sup>. Whilst most of the web content, functionalities and features of MIDSIS-TROCS 3.0 will remain unchanged, the successful applicant, hereafter referred to the "Contractor", will be expected to make the necessary development to modernise the design of the Website, integrate the Inter-regional manual and link it to the Decision trees of the new MIDSIS-TROCS, here after referred to as MIDSIS-TROCS 4.0, as detailed below and in **Annex I** and **Annex II**.
9. Furthermore, REMPEC is collaborating with the [Information and Communication Regional Activity Centre \(INFO/RAC\)](#) since January 2019 to develop, upgrade and migrate on INFO-RAC's server its different websites and decision support tools, namely the current REMPEC's Website<sup>2</sup>, MENELAS<sup>3</sup>, Waste Management<sup>4</sup>, POSOW<sup>5</sup>, MEDGIS-MAR<sup>6</sup>, as well as West MOPoCo<sup>7</sup>. INFO-RAC offered to host all REMPEC's Websites on the same server and intends to interconnect them, where appropriate.
10. In order to comply with cyber security matters and adopt the latest available reliable technologies, most of REMPEC's Websites were developed on the software **PLONE version 5**, referred to as PLONE 5, (REMPEC, MENELAS, Waste Management, POSOW and West MOPoCo) and the Centre intends to upgrade all the other websites to the same software when appropriate.
11. At the present stage, the Website MIDSIS-TROCS corresponds to the version 3.0 of the tool, was developed in 2010 and is hosted on REMPEC's server. The version 4.0 or MIDSIS-TROCS 4.0, to be developed under the present assignment will be migrated to INFO-RAC' server after completion. MIDSIS TROCS 3.0 is using old technologies (Apache Tomcat 6.0.33 Servlet/JSP Container requiring Java 2 Standard Edition Runtime, Environment (JRE) version 5.0 or later), and is hosted on a server running Windows SBS 2008 on a Dell Power Edge 2950 running Debian GNU/Linux

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<sup>1</sup> <http://midsis.rempec.org/>

<sup>2</sup> <https://www.rempec.org/>

<sup>3</sup> <https://www.menelas.org/>

<sup>4</sup> <https://wastemanagement.rempec.org/>

<sup>5</sup> <http://www.posow.org/>

<sup>6</sup> <http://medgismar.rempec.org/>

<sup>7</sup> <http://www.westmopoco.rempec.org/>

“Etch”. For all these reasons MIDSIS-TROCS 3.0 needs to be developed to a version 4.0, using technologies compatible with PLONE 5.

## Scope and Objectives

12. With a view to assisting the Contracting Parties in an efficient way, REMPEC is looking for IT services to support the Centre to maintain its information systems and improve the quality, speed and effectiveness of decision-making process in case of marine pollution incidents through the development and introduction of technical and decision support tools.
13. The main objective of the IT services for the development of the version 4.0 of the Maritime Integrated Decision Support Information System on Transport of Chemical Substances (MIDSIS-TROCS 4.0) is to provide, in the proposed timeframe, Contracting Parties to the Barcelona Convention, the OSPAR/Bonn Agreement and the Helsinki Commission (HELCOM), and the international community with an updated and efficient tool to facilitate decision making, in case of Hazardous and Noxious substances (HNS) spill.
14. MIDSIS-TROCS 4.0 shall enable the integration of future chemical products and related data and information, and to give access to lessons learnt from previous and actual spills. The Contractor will review the whole tool interface, while REMPEC will provide the contractor with updated information and databases *inter alia* on GESAMP, Emergency Schedule, Pollution category, experts list and Accident reports.
15. The Contractor should consider the technical feasibility to interconnect the Databases on MIDSIS-TROCS 4.0 with other existing Databases on HNS from other platform(s) dealing with chemical pollution (e.g HNS-MS). This interconnection should allow the DataBase on MIDSIS-TROCS 4.0 to be automatically updated with the up-to-date data available on the platform(s) considered by REMPEC.

## ASSIGNMENT

16. The IT services, consists in the development of MIDSIS-TROCS 4.0 to support REMPEC in maintaining its information systems, improve the quality, speed and effectiveness of decision-making process as well as implementing of the activity 3.2 of the West MOPoCo Project.

### Package 1:

17. To achieve this objective, the Contractor will undertake the following tasks:
  - .1 to attend a Kick-Off-Meeting to be held online through video-conference, to discuss with REMPEC and the project partners about the tool and related database and documents *inter alia* the HNS Manual, the scope of the assignment, as well as to collect all required information for the completion of this consultancy and to agree on the method of work and communication channel;
  - .2 to create a new Web interface for MIDSIS-TROCS 4.0, based on the MIDSIS-TROCS 3.0, including designing, developing, creating, deploying and testing of MIDSIS-TROCS 4.0 as well as delivering a consistent system, making use of state-of-the-art technical solutions, simple to update and user-friendly, further detailed below;
  3. to extract the existing Databases available on MIDSIS-TROCS 3.0 (Chemical products, Incident reports, Decision Trees, etc.), recreate and adapt them to MIDSIS-TROCS 4.0. The Contractor is expected to interconnect the Databases as it is the case on MIDSIS-TROCS 3.0;
  - .4 to update the Databases with the new data provided by REMPEC. Data collected must be compiled, standardized, and entered in above-mentioned Databases by the contractor. REMPEC in coordination with the project partners, will inform the Contractor where possible additional/new pictures should be inserted or replacing existing ones. In addition, for incident reports, the Contractor may be requested to upload pdf documents or external website links;

.5 to integrate and format the Decision Trees as well as the flowcharts taken from the HNS Manual under the guidance of REMPEC in coordination with the project partners;

.6 to propose a functional solution for the human interface. The following topics, at least, will be addressed:

- Presentation;
- Usability;
- Flexibility;
- Configuration;
- Text and graphic elements;

.7 to prepare and include in the relevant website section, an end-user tutorial to be available in English and French languages. This information will guide users to get started and make use of the Website, as well as a detailed explanation of each feature of the system; and

.8 to migrate the final version of MIDSIS-TROCS 4.0 from its location to INFO-RAC's server and ensure its deployment on <https://midsis.rempec.org/> .

18. All the above-mentioned points (paragraph 17) are further detailed in terms of structure and technical requirements in **Annex I** and must be addressed by the Contractor accordingly.

19. The Contractor will work under the direct supervision of the designed REMPEC staff.

#### **Package 2:**

20. to develop a stand-alone application of MIDSIS-TROCS 4.0 both on workstations (laptop, computer) and mobile phones, tablet (App) to satisfy the needs of operational personnel, without access to internet, who would require information onsite. The stand-alone application should preferably enable automatic update when the web version is updated.

#### **Package 3:**

21. to deliver a training session on the use and update of MIDSIS-TROCS 4.0 for REMPEC's staff in charge of the administration of the site.

22. Package 2 and Package 3 will be decided during the selection process considering the availability of funds under this activity.

### **METHODOLOGY AND MANAGEMENT**

23. The Contractor will make use of state-of-the-art technical solutions, simple to update and easily usable by users. The Contractor must take into consideration that the end users will be officials with standard computer office skills and are not necessarily experienced IT users. In addition, the Contractor must consider that the system administrator will have at least a minimal knowledge of databases and Website edition.

24. Usability of the Web interface as well as clarity of text and graphical representation of results will be a key component for the acceptance of the system. Responsiveness of the system will also be an important factor for the overall success. In this respect, it should be kept in mind that although there will probably be few simultaneous users, out of a possible maximum of 50, the Web interface will have to be able to process several consultations as well as users input at the same time. The Web interface will be responsive which means accessible both on workstations, mobile phones and tablets.

### **DELIVERABLES AND TIMEFRAME**

25. The Contractor shall provide the deliverables related to the above-mentioned project as follow:

#### **Package 1:**

- .1 prepare and submit to REMPEC the minutes of the online Kick-Off-Meeting organised by the Contractor one week after signature of the contract (refer to point 17.1);
- .2 prepare and submit to REMPEC, not later than **4 September 2020**, the first draft version of MIDSIS-TROCS 4.0 of the above assignments (refer to points 17.2 to 17.3). A first progress report is expected to highlight the development of the Website in terms of structure, design, options, usability.
- .3 prepare and submit to REMPEC, not later than **9 October 2020**, the second draft version of MIDSIS-TROCS 4.0 of the above assignments (refer to points 17.2 to 17.4);
- .4 prepare and submit to REMPEC, not later than **6 November 2020**, the third draft version of MIDSIS-TROCS 4.0 of the above assignments (refer to point 17.5);
- .5 prepare and submit to REMPEC, not later than **27 November 2020**, the final version of MIDSIS-TROCS 4.0 of the above assignments (refer to points 17.2 to 17.6). A final report (15 pages maximum) is expected to describe the whole development of the Website including justification of choices (design, structure, technology, usability, illustrations, data formats of the different databases, etc.);
- .6 transfer the final version of MIDSIS TROCS 4.0 (content, structure and related Data) from its location to INFO-RAC's server, not later than **11 December 2020** (refer to point 17.8).

#### **Package 2: if assigned**

- .7 prepare and submit to REMPEC not later than **02 October 2020** the first draft stand-alone application of MIDSIS-TROCS 4.0 (refer to point 20);
- .8 prepare and submit to REMPEC not later than **30 October 2020** the second draft stand-alone application of MIDSIS-TROCS 4.0 (refer to point 20); and
- .9 prepare and submit to REMPEC not later than **27 November 2020** the final stand-alone application of MIDSIS-TROCS 4.0 (refer to point 20).

#### **Package 3: if assigned**

- .10 deliver not later than **04 December 2020** an online training session on the use and update of MIDSIS-TROCS 4.0 for REMPEC's staff (refer to point 21); and
26. The deliverables (Website development) shall be in English and French as well as the user guide but the reports shall be written in English only and provided in electronic format using software compatible with Microsoft Word 2013.
  27. All deliverables provided by the Contractor shall include a footnote indicating that "This activity has been implemented by the Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC) during the West MOPoCo Project which was co-financed by the EU under the Civil Protection and Humanitarian Aid Operations project".

#### **Schedule**

28. The work and tasks, envisaged in the present document, shall follow the suggested Work plan in **Annex III** and shall be completed by **18 December 2020**. The contract will be terminated upon the submission of the deliverables by the Contractor and certification by REMPEC that the performance of the duties and the work carried out are satisfactory.
29. Within that timeframe, the Contractor shall organize his/her work in the best possible manner and ensure the successful completion of the missions and consultancy. In this respect, the Contractor shall form a team consisting of appropriate experts of web designing who are able to carry out tasks.

**ANNEX I: STRUCTURE AND REQUIREMENT FOR MIDSIS-TROCS 4.0**  
**ANNEX II: WEBSITE MOCK-UP OF MIDSIS-TROCS 4.0**  
**ANNEX III: WORK PLAN**

## **ANNEX I**

## ANNEX I:

### Structure and functionalities of MIDSIS-TROCS 4.0

Section	Description	Activity	Type of information available
<b>Home</b>	Background information about the main content of MIDSIS-TROCS;	<p>Include a content which will be provided by the REMPEC</p> <p>The home page will include flowcharts per type of chemical behaviour to support the decision-making. These flowcharts will be linked with sub-sections within the section Find chemical (quick access).</p>	Text, image, video
<b>Find chemical</b>	<p>Allow the user to search for a particular chemical product by Name, UN Number or CAS Number</p> <p>Allow the user to access a set of information of the selected chemical product such as Physical/Chemical Data, Additional Data, Transportation Data, Reactivity Data, GESAMP Hazard Profile, Human Toxicity Threshold, Incident Reports, Shore Emergency Guide, at Sea Emergency Guide and Decision Trees.</p> <p>This section is merging the existing sections "Find Chemical" and "Information" on MIDSIS-TROCS 3.0</p>	<p>Redevelop the existing Data Base including three filters to select chemical products by name, UN Number or CAS Number as it is the case in the section "Find Chemical" of MIDSIS TROCS 3.0.</p> <p>Include the possibility to search the chemical products by the first letter of its name from A to Z. The search function will also allow the user to search chemical by the other chemical name(s), synonymous, as well as trade name of substance/mixture and will allow to find chemical even if the name is written in wrong way.</p> <p>Include a functionality to enable for the end-user to download an up-to-date files of different formats (Excel, Word, PDF) gathering all the available information of the chemical Database and showing the last update of information for each chemical product to know which chemicals have been updated recently</p> <p>Enable the possibility for the administrator to easily modify, add, delete information on the chemical Database.</p> <p>Recreate the different sections of the section "Information" available on MIDSIS-TROCS 3.0 as a primary navigation bare</p> <ul style="list-style-type: none"> <li>• <u>Information on Chemical</u>: Name, UN Number, CAS Number, External Resources (links to Wiser and Cameo platform), Physical Chemical Data, Additional Data, Transportation Data, Reactivity Data, GESAMP Hazard Profile, Human Toxicity Threshold</li> <li>• <u>Decision Trees</u></li> <li>• <u>Incident Reports</u></li> <li>• <u>At Sea Emergency Guide</u></li> <li>• <u>Shore Emergency Guide</u></li> <li>• Previous Incidents</li> </ul> <p>All sub-sections of <u>Information on Chemical</u> should be part of a secondary navigation bare. As it is the case in the current version of the website, MIDSIS-TROCS should include pop-up windows displaying relevant information to facilitate the understanding of the user</p>	Text, hyperlinks, images, Data Base with filters, tables, drop-down menus, downloadable Excel files Pop-up windows



		<p>This section should automatically display the available information about the chemical product that was selected at the top</p> <p>The different decision trees should be accessible even if name of the chemical product is not known as well as on hazard-based approach and flowchart per type of behaviour.</p> <p>The chemicals should allow the possibility to view all underlying decision trees and should be organised starting from behaviour of substances followed by their hazard profiles.</p>	
<b>Previous incidents</b>	Displays a table of the available incident reports for the chemical substance of interest;	<p>Recreate a Database of previous incidents including the details of the incidents (Year, Vessel, Name of Location, Coordinates, cargo type, substance spilled, images, description and hyperlinks etc.)</p> <p>Include a general GIS Map showing the location of all incident based on the coordinates. Include the possibility to search the incidents reports with the following filters (Year, Vessel name, Type of Vessel, Location, substance spilled, behaviour, etc.).</p> <p>Each incident should also be illustrated with a GIS Map based on the general GIS Map</p> <p>Unlike it is the case on MIDSIS-TROCS 3.0, each incident should enable to refer to more than one chemical product for each incident.</p> <p>Include a section showing the latest uploaded incident reports on the Database Include a functionality to be able for the end-user to download an up-to-date Excel file gathering all the available information of the incident reports Database</p> <p>Enable the possibility for the administrator to easily modify, add, delete information on the incident report Database</p> <p>This section should automatically display the available information about the chemical product that was selected in the section "Find a Chemical"</p> <p>It would be useful, especially when organizing training or exercise, to search for a particular incident by Name, UN number, behaviour</p>	Text, hyperlinks, table, Database, GIS Map downloadable Excel files
<b>Tools &amp; Guide</b>	Displays the list of tools available such as Beaufort scale; Unit Conversion; TNT Equivalent; Classification by Behaviour, Labels and Identification of unknown chemical;	Recreate the different tools and related functionality available on the current website (Beaufort scale; Unit Conversion; TNT Equivalent; Classification by Behaviour, Labels and Identification of unknown chemical). The Contractor will also include the possibility to upload/download PDF documents (e.g. guides)	Text, hyperlinks, images, tables, internal diagrams, navigation bare, PDF document
<b>HNS Manual</b>	Displays the electronic version of the HNS Manual under development during the West MOPoCo Project.	Create an electronic version of the HNS Manual based on the PDF document that REMPEC will provide to the Contractor during the implementation phase of the	Text, hyperlinks, images, tables, diagrams, internal,

		<p>work and not later than September 2020. The electronic HNS Manual should allow an user-friendly consultation and will reflect the full content of the document.</p> <p>The electronic version of the HNS Manual will be closely linked to the decision trees developed in the section Information on Chemical. REMPEC will provide the Contractor with the structure and links between the electronic HNS Manual and the decision trees during the implementation phase of the work.</p>	navigation bare
<b>Useful Links &amp; Glossary</b>	Displays a list of relevant organisations involved in the field of chemical pollution as well as the glossary of the different terms	Create a section dedicated to the list of links as well as a section dedicated to the Glossary based on the available information on the current website. This list of links should be organised by section/themes. These sections should allow the administrator to proceed with update of the content (modification, addition, removal of information).	Text, hyperlinks, table
<b>Help</b>	Displays a user guide (Tutorial) to present the different sections and features of MIDSIS-TROCS 4.0 as well as help end-users using the tool correctly illustrated with images	Create an online user guide for end-users explaining step by step the functionality of MIDSIS-TROCS 4.0 for public users.	Text, images, hyperlinks, video
<b>Download Offline Application*</b>	button to download the stand-alone application to be used by responders on the field which is automatically synchronised with the online application kept updated each time the offline application is connected to the internet	<p>Create an offline application accessible both for workstations (laptop, computer) and mobile phones, which recreates the whole MIDSIS-TROCS 4.0 system including its structure, layout, features, functionality, Databases, etc.</p> <p>The Contractor will detail in an user guide any relevant information to allow end-users to use this application.</p>	All types of information as detailed in the above-mentioned sections

\*: included in Package 2.

### **Technical requirements of MIDSIS-TROCS 4.0**

Below are listed the requirements for the development of MIDSIS-TROCS 4.0 which should:

1. be publicly available both in English and French throughout the Web interface accessible via the **domain name [midsis.rempec.org](http://midsis.rempec.org)**;
2. be designed under PLONE 5 for Website compatibilities;
3. be accessible from the latest available version of modern browser (e.g. but not exclusively Microsoft Internet Explorer, Firefox, Google Chrome, Safari, etc), with no needs to install specific software on the desktop of the user;
4. be responsive for laptop, smartphones and tablets. MIDSIS-TROCS 4.0 will be used under similar conditions regardless of the operating system of the user (e.g. Windows, Linux, MacOSx for laptop and computer, and Android as well as IOS for smartphones). It is understood that even though features will be the same, slight differences of display from one OS to the other will be acceptable;
5. enable specific inputs (documents, text, images, tables, Database, etc.) into the website;

6. be developed following the layout and features of REMPEC's website ([www.rempec.org](http://www.rempec.org)) including header, footer, navigation bars, search box, etc. The Contractor will also make sure that the graphical design should be in compliance with the HNS Manual. The necessary information such as logos will be provided to the Contractor during the implementation phase of the work
7. be managed with access protected by usernames and passwords:
  - A specific interface for system administration will be available for the Website. It will allow performing such tasks as: batch or manual update of data, content, architecture, management of users' accounts (creation, modification, deletion, permissions), etc.
  - Administrator accounts will be set-up for REMPEC. The system administration will always be performed internally at REMPEC and may be physically more than one person.
  - The administrator account will have full access on the Website and will have the possibility to add, modify and delete any document, text and other information displayed on the Websites, as well as modify the architecture of the website if needed.
  - The back-up system should enable REMPEC to reload previous datasets if deemed appropriate following any loss of Data.
8. be hosted on the Contractor's sever during the development but shall be migrated to INFO-RAC's server located in Italy, upon completion. In the case where MIDSIS-TROCS 4.0 is hosted on a server from a third party, the Contractor should assist REMPEC in the transfer of the final version of MIDSIS TROCS 4.0 (content, structure and related Data, etc.) from its location to INFO-RAC's server; and
9. be accessible by REMPEC and partners designated by REMPEC to provide feedback during the development phase.

## **ANNEX II**



Maritime Integrated Decision Support Information System on Transport of Chemical Substances (MIDSIS-TROCS)

- Home

Find Chemical

Previous Incidents

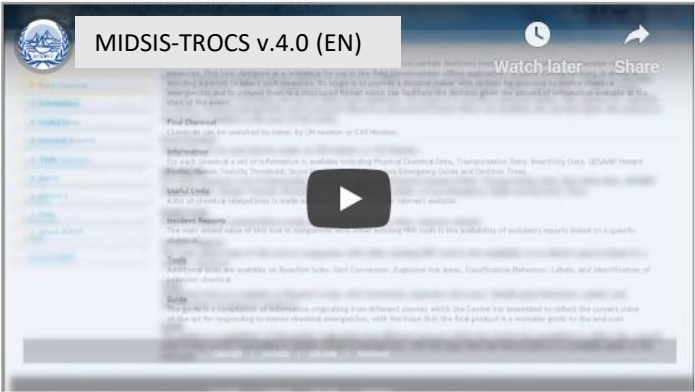
Tools & Guide

Manual

Useful links & Glossary

Help

Download Offline version

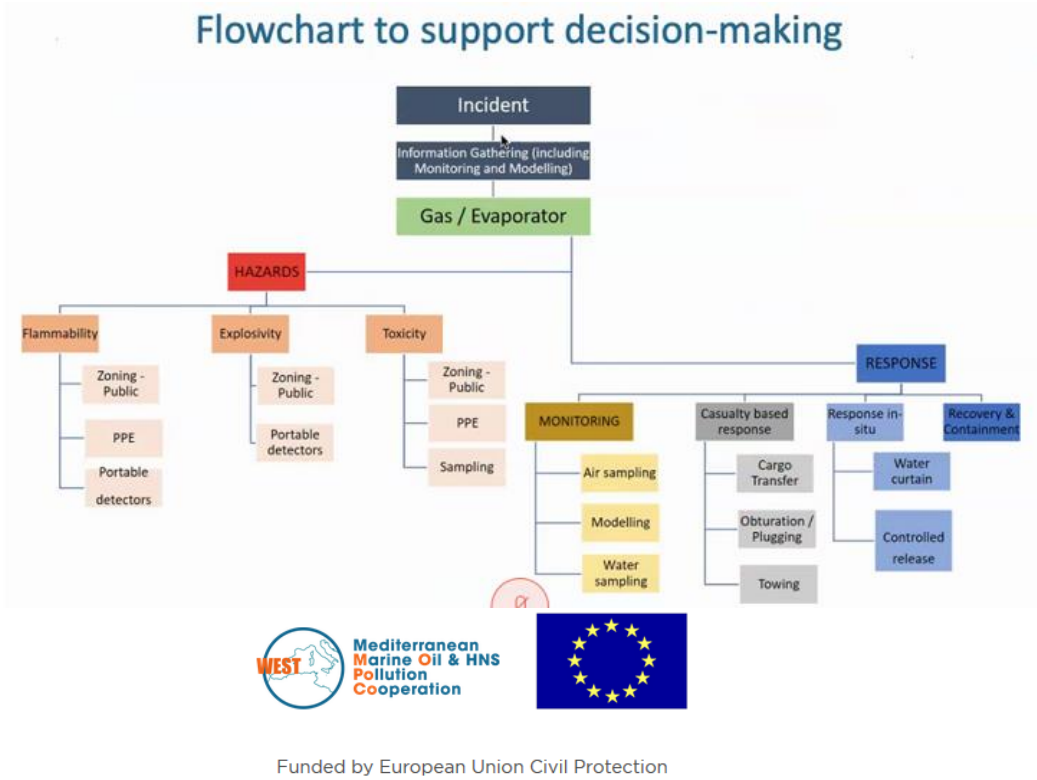


About MIDSIS-TROCS

The new **Maritime Integrated Decision Support Information System on Transport of Chemical Substances (MIDSIS-TROCS)** is the result of cooperation efforts of many experts and international and national institutions. MIDSIS-TROCS version 3.0 has been prepared by the Regional Marine Pollution Emergency response Centre for the Mediterranean Sea (REMPEC) in the framework of the Mediterranean Technical Working Group (MTWG) composed of experts of Mediterranean Coastal States and with the assistance of a Steering Committee comprising the International Maritime Organization (IMO), the International Oil Pollution Compensation Funds (IOPC Funds), the Centre of Documentation, Research and Experimentation on Accidental Water Pollution (CEDRE), Transport Canada (CANUTEC) and the International Tanker Owners Pollution Federation Ltd. (ITOPF).

MIDSIS-TROCS is a decision support system based on TROCS 2001 database, which was developed by REMPEC in collaboration with Malta University Services (MUS), for the use of REMPEC's Operational Focal Points. TROCS was renamed Mediterranean Integrated Decision Support Information System on Transport of Chemical Substances in 2003.

[...]





Find a Chemical

Chemical Name

ACETONE

1,1-TRICHLOROETHANE  
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE  
1,2-TRICHLOROETHANE

UN Number

1090

1005  
1010

CAS Number

67-64-1

100-41-4  
100-42-5

Download Database of Chemical products



v Find Chemical

> Decision Trees

> Information on Chemical

> At Sea Emergency Guide

> Shore Emergency Guide

> Previous Incidents

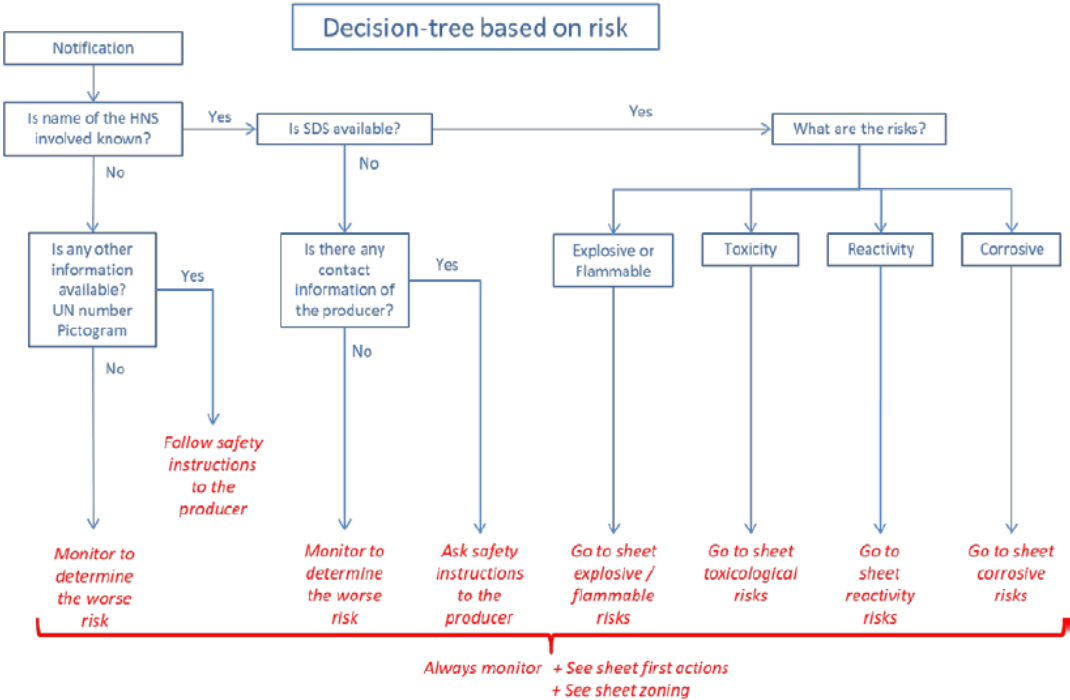
> Incident reports

> Tools

> Manual

> Useful links & Glossary

> Help







# Maritime Integrated Decision Support Information System on Transport of Chemical Substances (MIDSIS-TROCS)

Search Site



- Home
- Find Chemical
- Previous Incidents
- Tools & Guide
- Manual
- Useful links & Glossary
- Help
- Download Offline version

## Find a Chemical

Chemical Name

UN Number

CAS Number

ACETONE

1,1-TRICHLOROETHANE

1,1,2-TRICHLORO-1,2,2,2-TRIFLUOROETHANE

1,1,2-TRICHLOROETHANE

1090

1005

1010

67-64-1

100-41-4

100-42-5

## Download Database of Chemical products



### v Find Chemical

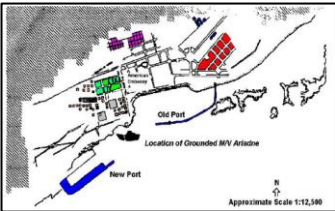
- > Decision Trees
- > Information on Chemical
- > At Sea Emergency Guide
- > Shore Emergency Guide
- > Previous Incidents
- > Incident reports
- > Tools
- > Manual
- > Useful links & Glossary
- > Help

- Decision Trees
- Information on Chemical
- At Sea Emergency Guide
- Shore Emergency Guide
- Previous Incidents

ACETONE - UN Number : 1090 - CAS Number : 67-64-1

Select an accident to display the detailed information.

Year	Vessel	Location	Cargo
1985	Ariadne	Mogadishu, Somalia	Package



### Summary

A container ship grounded while departing from the harbour of Mogadishu, Somalia, The ship carried a total of 600 containers, 118 of which contained hazardous materials: acetone, butyl acetate, dipentene, ethyl acetate, isobutanol, isopropanol, methyl isobutyl ketone, methyl ethyl ketone, sodium pentachlorophenate, tetraethyl lead, toluene, trichloroethylene, xylene. ....



Mediterranean  
Marine Oil & HNS  
Pollution  
Cooperation





## **ANNEX III**

Outputs	Jul-20			Aug-20			Sep-20			Oct-20			Nov-20			Dec-20		
Call for Tender	1 - 20 July																	
Evaluation and selection of offers			21-31 July															
Signature of Contract				3-7 August														
Kick off Meeting (refer to point 17.1 of ToR)				10-14 August														
Minutes of Kick-off Meeting (refer to point 25.1 of ToR)				10-14 August														
Submission of 1st draft version of MIDSIS-TROCS 4.0 and 1st progress report (refer to point 25.2 of ToR)					17 August - 4 September													
Revision 1st draft version of MIDSIS-TROCS 4.0 and 1st progress report by REMPEC and Partners							7- 18 September											
Submission of 1st draft stand-alone version of MIDSIS-TROCS 4.0 (refer to point 25.7 of ToR)									21 Sept- 2 Oct									
Revision of 1st draft stand-alone version of MIDSIS-TROCS 4.0										5-16 Oct								
Submission of 2nd draft version of MIDSIS-TROCS 4.0 (refer to point 25.3 of ToR)								16 Sept - 9 Oct										
Revision 2nd draft version of MIDSIS-TROCS 4.0 by REMPEC and Partners											12-23 Oct							
Submission of 3rd draft version of MIDSIS-TROCS 4.0 (refer to point 25.4 of ToR)												19 Oct -6 Nov						
Revision 3rd draft version of MIDSIS-TROCS 4.0 by REMPEC and Partners													9 -18 Nov					
Submission of second stand-alone version of MIDSIS-TROCS 4.0 (refer to point 25.8 of ToR)											19-30 Oct							
Revision of second stand-alone version of MIDSIS-TROCS 4.0												2-13 Nov						
Submission of final version of MIDSIS-TROCS 4.0 and final progress report (refer to point 25.5 of ToR)													19 - 27 Nov					
Submission of final version of the stand alone version (refer to point 25.9 of ToR)													16-27 Nov					
Testing period for MIDSIS-TROCS 4.0 Website and stand-alone version of MIDSIS-TROCS 4.0															30 Nov - 4 Dec			
Online training (refer to point 25.10 of ToR)															30 Oct -04 Dec			
Migration of MIDSIS TROCS 4.0 to INFO-RAC's server (refer to point 25.6 of ToR)																7- 11 Dec		
End Contract																		18-Dec

- Package 1
- Package 2
- Package 3